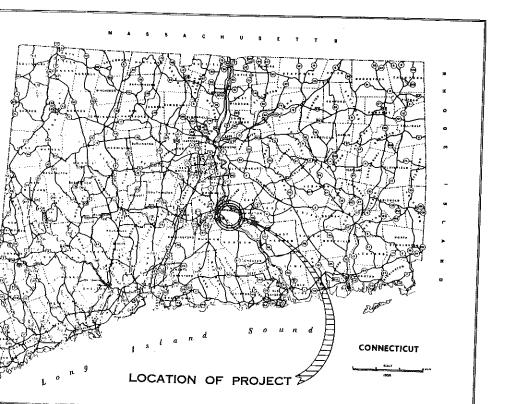
Study for Relocation of Section of Route US 6A CONNECTICUT RIVER BRIDGE MIDDLETOWN - PORTLAND



JOHN DEMPSEY

Governor

THE MIDDLESEX BRIDGE AND PORT AUTHORITY

Co-Chairman JOHN V. ANDERSON

JOHN W. BRADLEY

JOHN J. COONEY

SEWARD F. HULL

Co-Chairman RONALD J. MARKHAM

HAROLD L. STRICKLAND

DONALD THAYER

WILLIAM K. WASCH

CONNECTICUT STATE HIGHWAY DEPARTMENT

HOWARD S. IVES, Commissioner

TELEPHONE 874-4141

95 RIVER STREET MILFORD, CONNECTICUT 06460

March 31, 1967

The Hon. Howard S. Ives State Highway Commissioner Connecticut State Highway Department Wethersfield, Connecticut

Dear Sir:

In accordance with Paragraph 6 of our contract dated November 21, 1966 for engineering services, we are pleased to submit route selection studies and report in connection with the Connecticut River crossing of the proposed relocation of Route 6-A including approaches in Middletown and Portland. The investigation and study are made in accordance with the first sentence, Section 2 of the Special Act 266 of the 1965 Special Session of the General Assembly.

Several meetings were held with members of the State Highway Planning Division, the Director of Midstate Regional Planning Agency and members of the Middlesex Bridge and Planning Authority to determine the northern-most and southern-most boundries of the traffic corridor. It was decided to make Line B the southernmost route and Line C the northern-most route in the study.

To formulate the report we utilized 300' to the inch prints of aerial photography made in March of 1965 for use of State agencies. We also used contour data of the current available U.S.G.S. maps of the area. The Highway Department furnished "Two Way Average Daily Traffic of Crossings of Connecticut River in State of Connecticut" and the "Projected Two Way Average Daily Traffic for Year 2000".

We endeavored at the outset to find the most obvious route that would have the minimum R.O.W. impact, to provide an economical river crossing, would give reasonable traffic service to the main business section of Middletown, and provide a route in the general direction of Meriden and Willimantic (the nearest cities on the U.S. Federal Aid Route 6A). Several lines were studied and compared for the length of the river from Bodkin Rock to the narrows to determine feasible crossing locations from engineering, economic and esthetic standpoints.

Line A in this report begins at the north end of Pameacha Pond, crosses South Main Street, thence northeast over Main Street Extension (the ravine from South Main Street to Main Street Extension would have to be filled in and a culvert built to take the brook. There are trunk line sewers in this ravine which would require considerable change). From the intersection of Ridge Road and Main Street Extension the Line A (leaves Line C) curves to a southeasterly direction and continues over East Main Street, Wall Street, Frisbie Street, Bow Lane, and Route 9 Expressway, thence turns southeasterly entering the Connecticut Valley State Hospital grounds about at Tryon Hill. It then continues in an easterly direction and converges with Line B after going over

-2-

Bartholomew Road before reaching Reservoir Brook. Both Lines A and B then continue in a straight line and cross the Connecticut River just east of Bodkin Rock in Portland, thence continues along the south side of Straits Hill, thence crossing Portland-Cobalt Road (where the Expressway and 17 have a junction) continuing in an easterly direction south of Jobs Pond.

The cost estimate for Line A was based on an Urban (Residential) Type G, 6 lanes expandable facility, having an interchange at Route 9 with turning ramps for speeds up to 70% of the expressway design speed also having structures at the following locations:

> SOUTH MAIN STREET (ROUTE 17) LONG HILL BROOK ENCLOSE SUMNER BROOK RAVINE IN TUNNEL MAIN STREET EXTENSION EAST MAIN STREET WALL STREET BOW LANE AND DENISON ROAD TRYON STREET ROUTE 9 POND STREAM BARTHOLOMEW ROAD RESERVOIR BROOK CULVERT BOW LANE INDIAN HILL BROOK RIVER ROAD NEW HAVEN RAILROAD

CONNECTICUT RIVER ROUTE 6A

ROAD

ON ROUTE U.S. 17:

ROUTE US 6A AND ROAD

ROAD RAILROAD

CONNECTOR:

BROOK STREET

ROAD

Ramps to a reasonable number of local streets and an interchange at Route 6A, Portland.

Line B in this report begins at Randolph Road (Route 155) and runs in a northeasterly direction over the Route 9 Expressway, Saybrook Road just north of its intersection with Reservoir Road, thence over Bartholomew Road, then it converges with Line A previously mentioned and coincides with this Line A to the junction with Route 17 and along the south side of Jobs Pond.

The cost estimate for Line B is for the Class Urban (Residential) Type G, having an interchange at Route 9 just north of Randolph Road. The turning ramps would

(Continued)

be for speeds up to 70% of the expressway design speed, also having structures at the following locations:

RANDOLPH ROAD
ROUTE 9
ROUTE 9A
RESERVOIR ROAD
BARTHOLOMEW ROAD

The remainder of the line is exactly the same as for Line A. Ramps to a reasonable number of local streets and an interchange at Route 6A, Portland.

Line C in this report begins at the north end of Pameacha Pond and coincides with Line A to Main Street Extension where Line C leaves Line A and continues in a northeasterly direction and crosses the Connecticut River at the narrows, continues over Riverside Avenue and Grove Street, thence easterly about 600' south of the existing 6A Expressway across Pecausett Pond and Meadows along the north side of Straits Hill where it has a junction with a proposed relocation of Route 17, thence Line C continues eastward over the Portland-Cobalt Road and south of Jobs Pond where it coincides with the alignment of Lines A and B.

The cost estimate for Line C was based on an Urban (Residential) Type G, 6 lanes expandable facility, having an interchange at Route 9 with turning ramps for speeds up to 70% of the expressway design speed also having structures at the following locations:

PAMEACHA POND AND AVENUE SOUTH MAIN STREET (ROUTE 17) WOODSIDE CIRCLE ENCLOSE SUMNER BROOK IN CULVERT MAIN STREET EXTENSION EAST MAIN STREET WALNUT AVENUE ROUTE 9 BROOK ASYLUM STREET RAILROAD RIVER ROAD CONNECTICUT RIVER RIVERSIDE AVENUE BROOK CULVERT GROVE STREET PECAUSETT POND CULVERT BROOK CULVERT ROUTE 6A ROAD

ON ROUTE 17:

ROAD 6A RAILRO

Ramps to a reasonable number of local streets and an interchange at Route 6A,

Portland.

Another crossing that would go between the radio tower (WCNX) and Silvermine Hall (Connecticut Valley Hospital) in Middletown then cross the Connecticut River

in a northerly direction and head directly toward Pecausett Pond across the Meadows

This line had many demerits such as requiring a very long river crossing bridge (much higher cost than other crossings), would require a very long trestle approach on the Portland, the subsurface material is not satisfactory for an economical foundation for a long span bridge since ledge is approximately 165' below the surface of the ground; also, the subsurface material is not satisfactory from an economical standpoint for piers for the approach trestle on the Portland side. Furthermore, this line would cross the Connecticut Valley Hospital grounds in a location which would interfere in a most harmful way to the hospital's planned expansion. Therefore, the line was not studied further.

BRIDGES

The selection of the proper bridge involves consideration of vertical and horizontal clearances in the river and also the esthetics problem. The arch bridge was selected as the most suitable to meet all the requirements. The arch bridge is designed as twin bridges, one twin carrying the four lanes of west bound traffic and the other twin carrying the four lanes of traffic east bound. The drawing shows them separated by only one inch but if preferred they could be separated to permit the lanes to line up with the rest of the highway with a median width of 80'.

The bridges are designed for H.S. 20-44 loading in accordance with standard specifications for Highway Bridges of the A.A.S.H.O. Eighth Edition. The Deck Slab 7-3/4" depth class F concrete composite with floor stringers.

The bridge deck should be constructed at the outset permitting travel in three lanes in each direction with the fourth lane and break-down lane constructed raised and having rumble strips to allow only slow speeds on them for safety.

The suspension bridge as an alternate has been included because for the Lines A and B crossing it may be less costly than the proposed arch. The suspension bridge also could be built as twin suspension bridges with the 80' wide median for very little additional cost.

Consideration should be given to the possibility of using 6" lightweight aggregate concrete deck slab composite with the steel stringer beams and the concrete slab to be topped with a 2" hot mix asphalt wearing surface. This lighter deck would save considerable in the cost of the steel structure.

heet showing the schematic sketches of anticipated 1995 ADT volumes for changes on Line C and the sheet for the anticipated 1995 ADT volumes for nterchanges on Line B show the high volume of traffic that would cross ever on Line C compared with the volume that would cross the river on B. This would be the case if the Arrigoni Bridge were an equal traffic ity as the proposed new bridge.

e river crossing bridge is built on the alignment A & B and since the ble capacity of the Arrigoni Bridge is estimated to be about 30,000 ADT, 95 practically the same volume of traffic would be using the proposed the as would use the bridge on location C.

ajor consideration is to provide a high standard expressway from Route 6A ddlefield to Route 2 in either Marlborough or Colchester so that combined the capacity of the Arrigoni Bridge, sufficient highway capacity across iver in the Middletown-Portland area will accommodate at least 73,000 ADT 195.

only about one mile farther via Route A or B than via Route C from the end of the Middletown City business district and since the consideration be the difference between 43,500 and 30,500 or 13,000 ADT per day in and assuming that the out-of-pocket cost to the vehicle owner is 5¢ per this would amortize (over a period of 40 years at 4% interest) a capital by of less than \$5,000,000.

her words, from an economic standpoint, Line C could not be justified.

ne B were used the traffic on the Route 9 expressway between the south end the Middletown business district and the proposed interchange near Randolph would require the widening of that stretch of the existing expressway and cost should be added to the Line B cost in comparing it with Line A.

ter study of the volume of traffic and other impact should be made before ling on Line A or Line B. Both Line A and Line B join and are one and same line from about Bartholomew Road in Middletown and across the ecticut River and for the full length in Portland. Since this report is wrily to establish the line of the bridge crossing the Connecticut River, since either Line A or B could be ultimately connected to the Bodkin Rock sing, it is only necessary at this time to determine that either Line A will be the recommended line over Line C.

der for the Middletown-Portland area and the other area east of the ecticut River to keep pace with the economic development and growth of emainder of the State, this facility and its approaches must be conteted at an early date.

the State receives only a few million dollars a year from the Federal ment to be matched equally by state funds for this classification of ays, and considering that the expressway section between the present 6A in Middlefield and Route 9 in Middletown and the section from 6A in Portland and Route 2 in Marlborough or Colchester has to be eted to make this facility operate as anticipated; and, furthermore,

the needs for the large number of projects under consideration for the other roads in this classification throughout the state, this means that for all intents and purposes all the funds for this project must be state funds.

We recommend that the Arch Bridge, located on alignment A & B crossing the river about 300' southeast of Bodkin Rock, be approved.

We recommend that the target date of 1975 for the completion of the construction of this facility be adopted. This would allow two years for the preliminary design of the bridge and establishing the location of the highway, $2\frac{1}{2}$ years for engineering design and acquiring rights of way, and $2\frac{1}{2}$ years to perform the construction.

1967-1969 - biennium \$400,000 for engineering.
1969-1971 - biennium \$2,600,000 for R.O.W. and engineering.
1971-1973 - biennium \$12,000,000.
1973-1975 - biennium \$35,000,000 (plus an amount necessary to widen the Route 9 expressway or build on Line A).

Property for the relocation of U.S. 6A should be acquired promptly. Vacant land within the proposed right of way should be taken as soon as the line has been filed. Occupied land should be taken on a program geared to the highway construction schedule, and in any case in advance of any building expansion or other improvement of the property.

We wish to acknowledge the assistance generously given us by the Highway Department Engineers and express our appreciation for their constructive recommendations which have been most helpful to us.

Respectfully submitted,

NEWMAN E. ARGRAVES & ASSOCIATES

Newman E. Argraves

NEA; ac; lae

COMPARISON OF LINES MERITS

LINE B

LINE C

LANE A

LINE B

LINE C

standpoint.

0.60 miles shorter between terminal points than Line A and 0.80 miles shorter than B.

1) 0.60 miles longer between terminal points than Line C. 2) Takes out more industries

0.80 miles longer than Line C.

COMPARISON OF LINES

DEMERITS

Displaces the lowest number of commercial and industrial enterprises.

than Line B. R.O.W. and construction costs Takes out more industries than Line A or B.

Total R.O.W. & construction costs are least.

4) Renders a local traffic

greater than Line B.

R.O.W. and construction costs greater than Line A or Line B.

Least adverse R.O.W. impact.

Renders best traffic service for Middletown and Portland business centers.

Renders a local traffic service slightly less than service less than Line C. Line A and less than Line C.

Less desirable from an esthetics

st desirable from an thetics standpoint.

ast adverse impact on

ld life.

LINE A

Most desirable from an esthetics standpoint.

6)

5)

Will be most adverse from wild life standpoint, especially where it crosses the meadows.

Least adverse impact on wild life.

> Conforms with recommendations of Technical Planning Associates of 1965 Plan of Develop-

ment for Portland & Middletown.

Conforms only partly with recommendations of Technical Planning Association Report of June 1965, Plan of Development for City Planning Commission Middletown.

Does not conform with recommendations of Technical Planning Association Report of June 1965, Plan of Development for City Planning Commission Middletown.

Advantageous for development of selected industries along expressway.

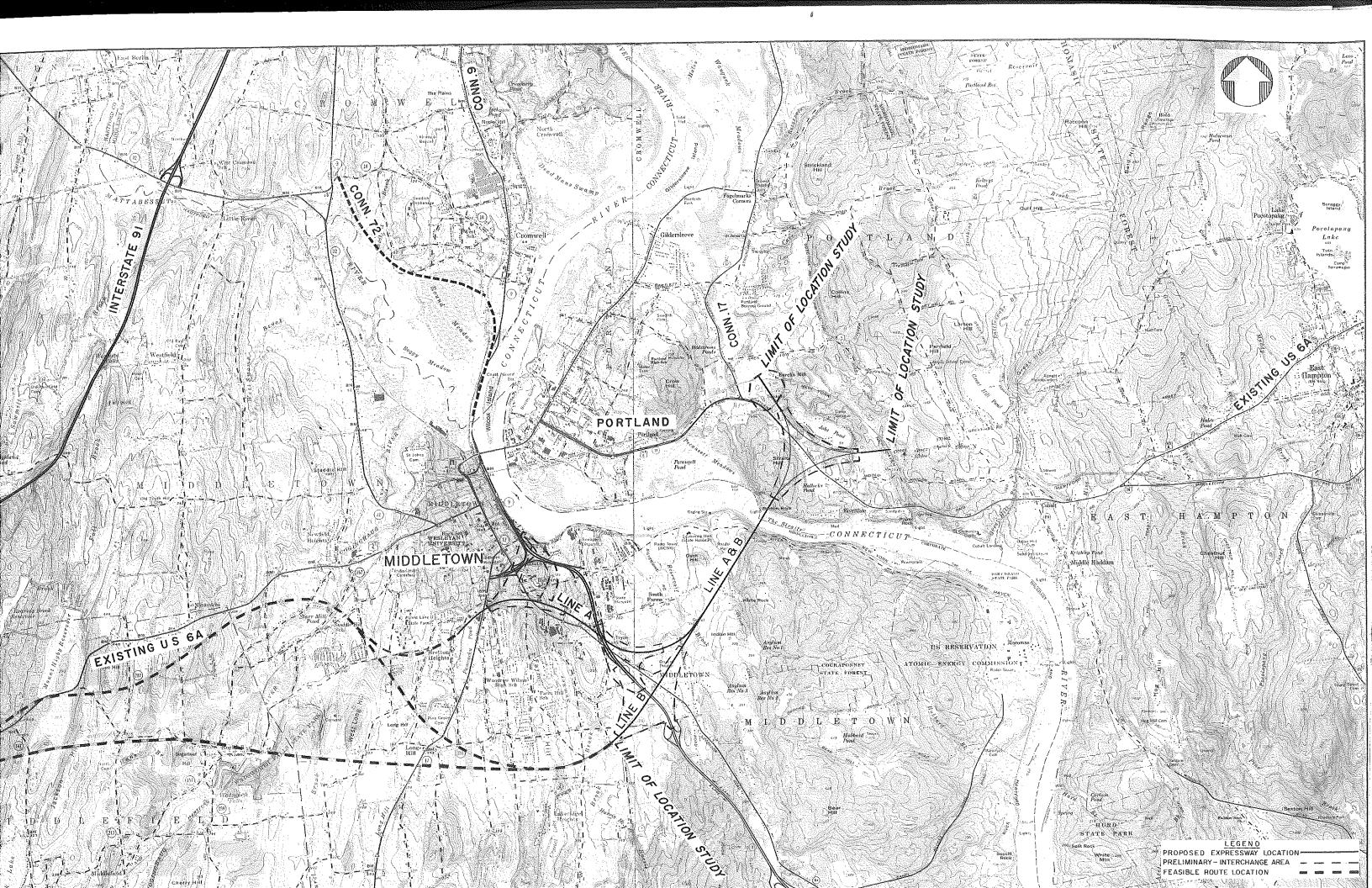
Does not conform with recommendations of Technical Planning Association Report of Development for Portland 1965.

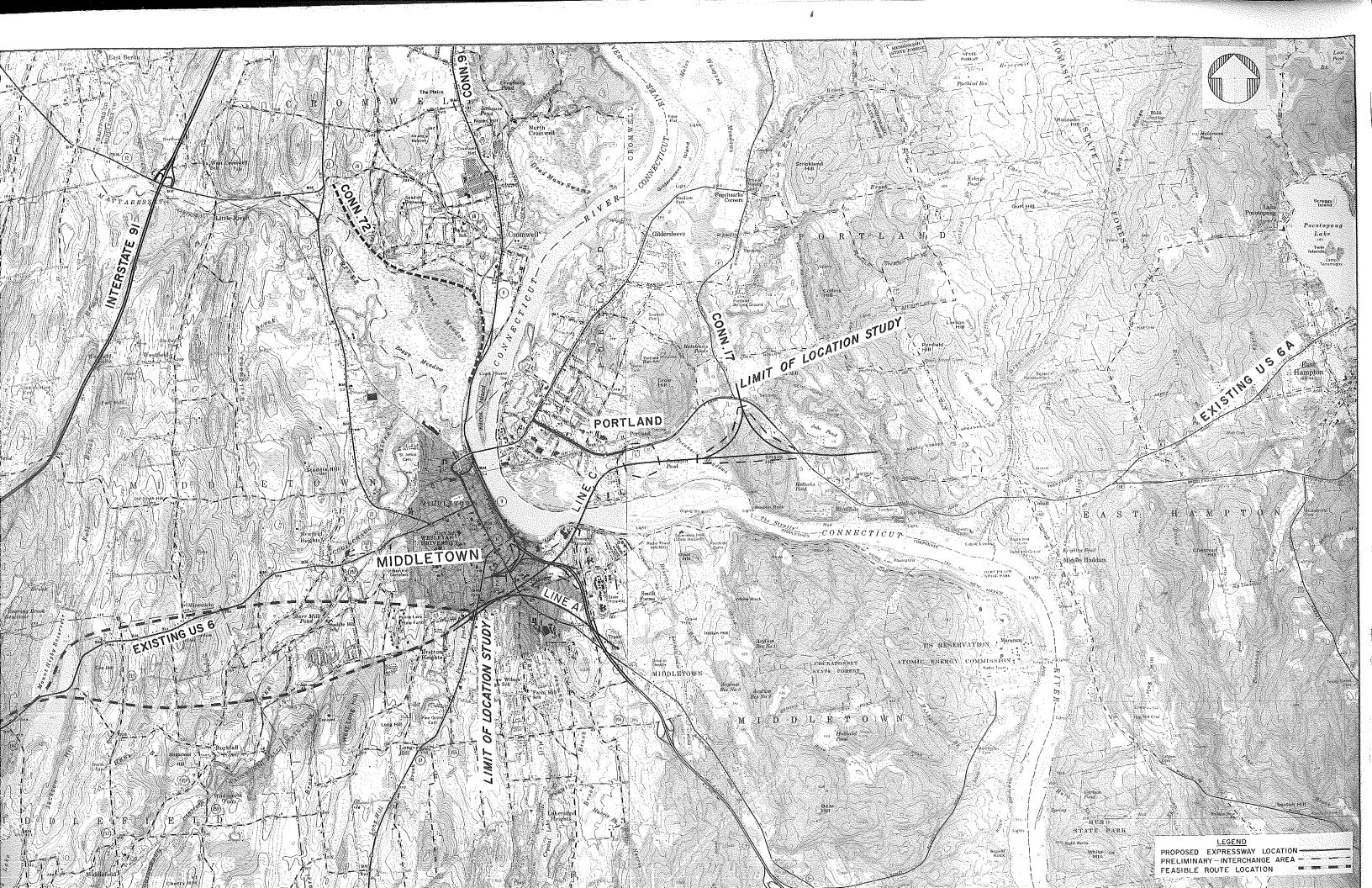
Does not conform with recommendations of Technical Planning Association Report of Development for Portland 1965.

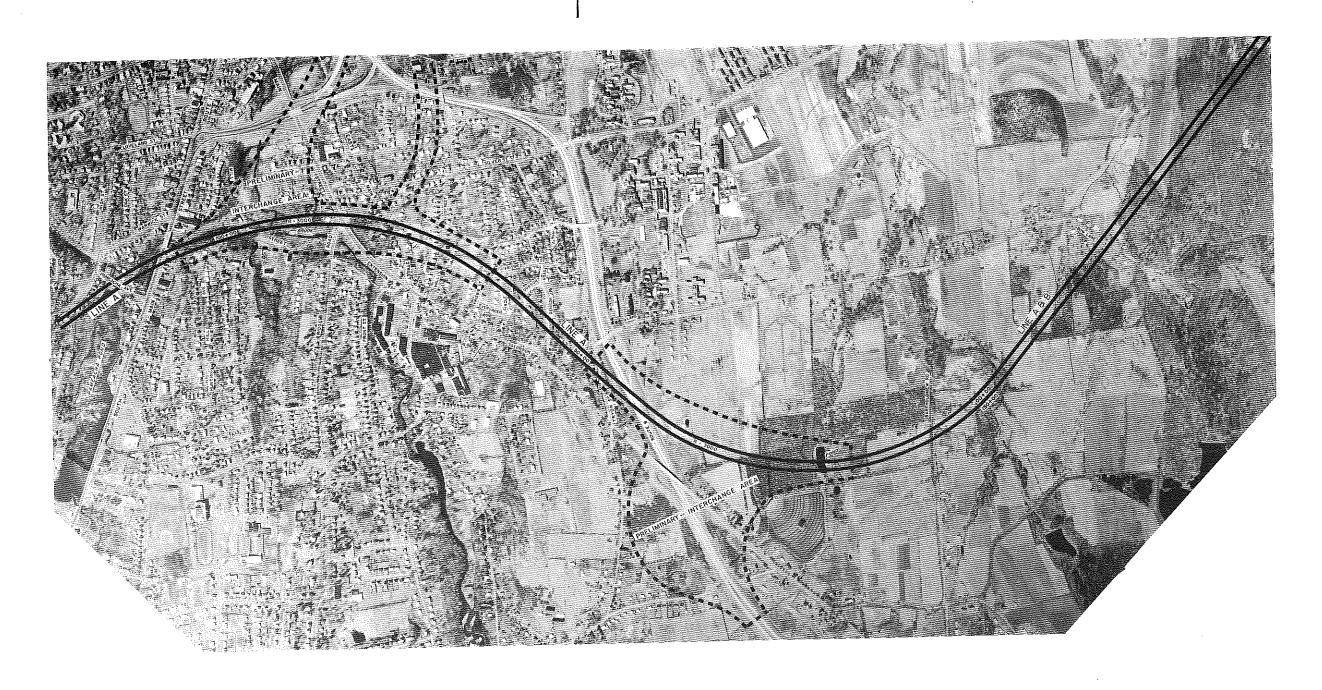
COMPARISON OF LINES

Length**		Cost (Thousand:	s) dollar	rs.	Impact						
In Cost	R.O.W. &			n		Commercial &					
Est.	Utilities	Conn. R. Br.	Other	Total	Dwellings	Industrial	Miscellaneous				
4.43	8,200	31,000	22,300	61,500	232	14	1 church				
3•35	3,500	31,000	15,500	50,000	43	7					
3.85	10,000	40,000	27,000	77,000	260	30	2 schools				
_	Est. 4.43 3.35	Miles In Cost Est. 4.43 8,200 3.35 3,500	Miles In Cost Est. Wtilities R.O.W. Cons Cons R. Br. 4.43 8,200 31,000 3.35 3,500 31,000	Miles R.O.W. Construction In Cost & Conn. R. Br. Other 4.43 8,200 31,000 22,300 3.35 3,500 31,000 15,500	Miles R.O.W. Construction In Cost & Conn. R. Br. Other Total 4.43 8,200 31,000 22,300 61,500 3.35 3,500 31,000 15,500 50,000	Miles R.O.W. Construction In Cost & Conn. R. Br. Other Total Dwellings 4.43 8,200 31,000 22,300 61,500 232 3.35 3,500 31,000 15,500 50,000 43	Miles R.O.W. Construction Commercial & & Tindustrial Est. Utilities Conn. R. Br. Other Total Dwellings Dwellings Tindustrial 4.43 8,200 31,000 22,300 61,500 232 14 3.35 3,500 31,000 15,500 50,000 43 7				

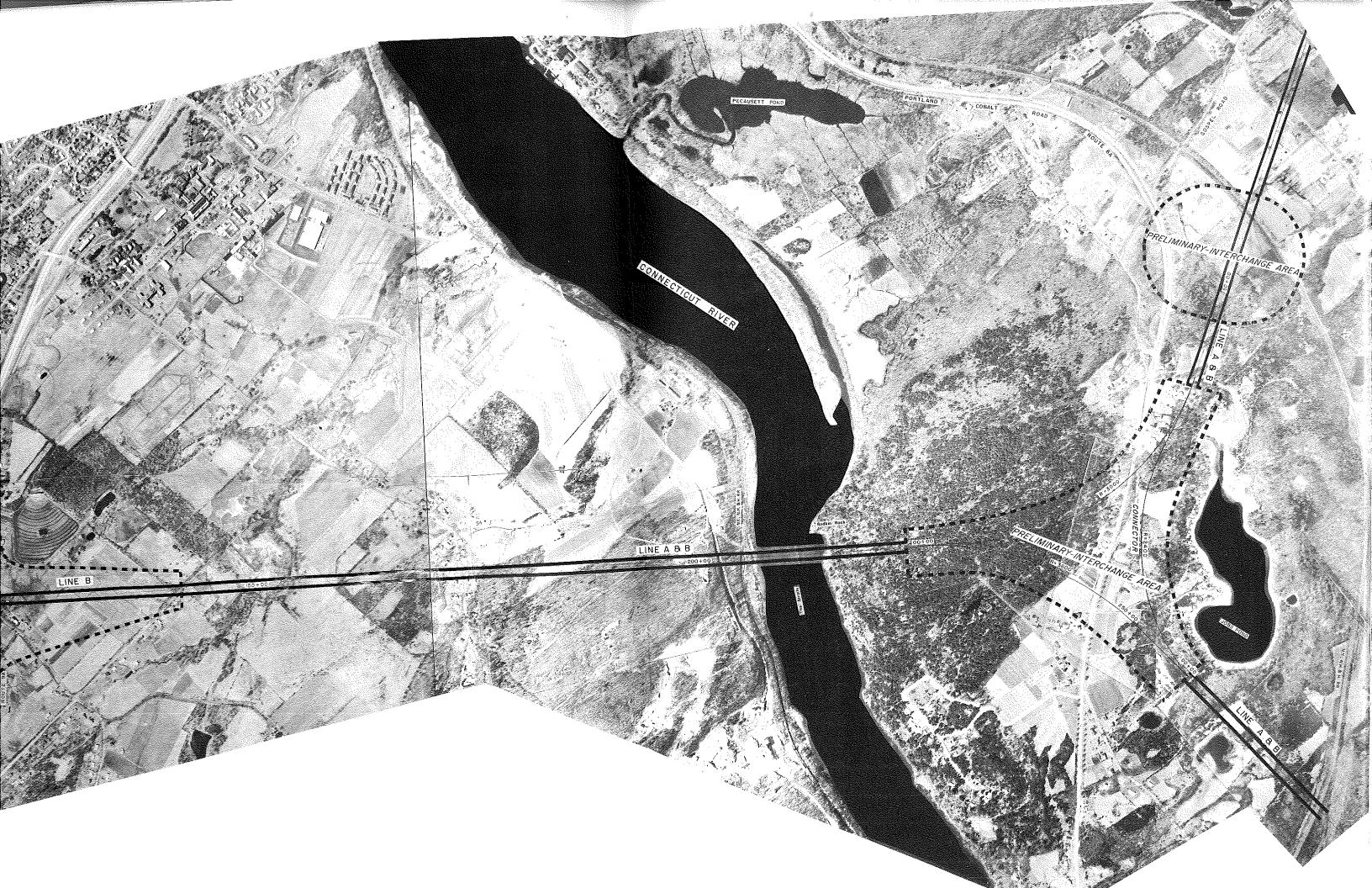
stance along feasible route from relocated 6A near Middlefield to 1500' east of the intersection of the ute 6A and the proposed expressway alignment in Portland. R.O.W. estimates were determined by referring to the assessed valuation of various parcels of property along the proposed alignments in the local assessor's office, then a factor that we deemed appropriate was

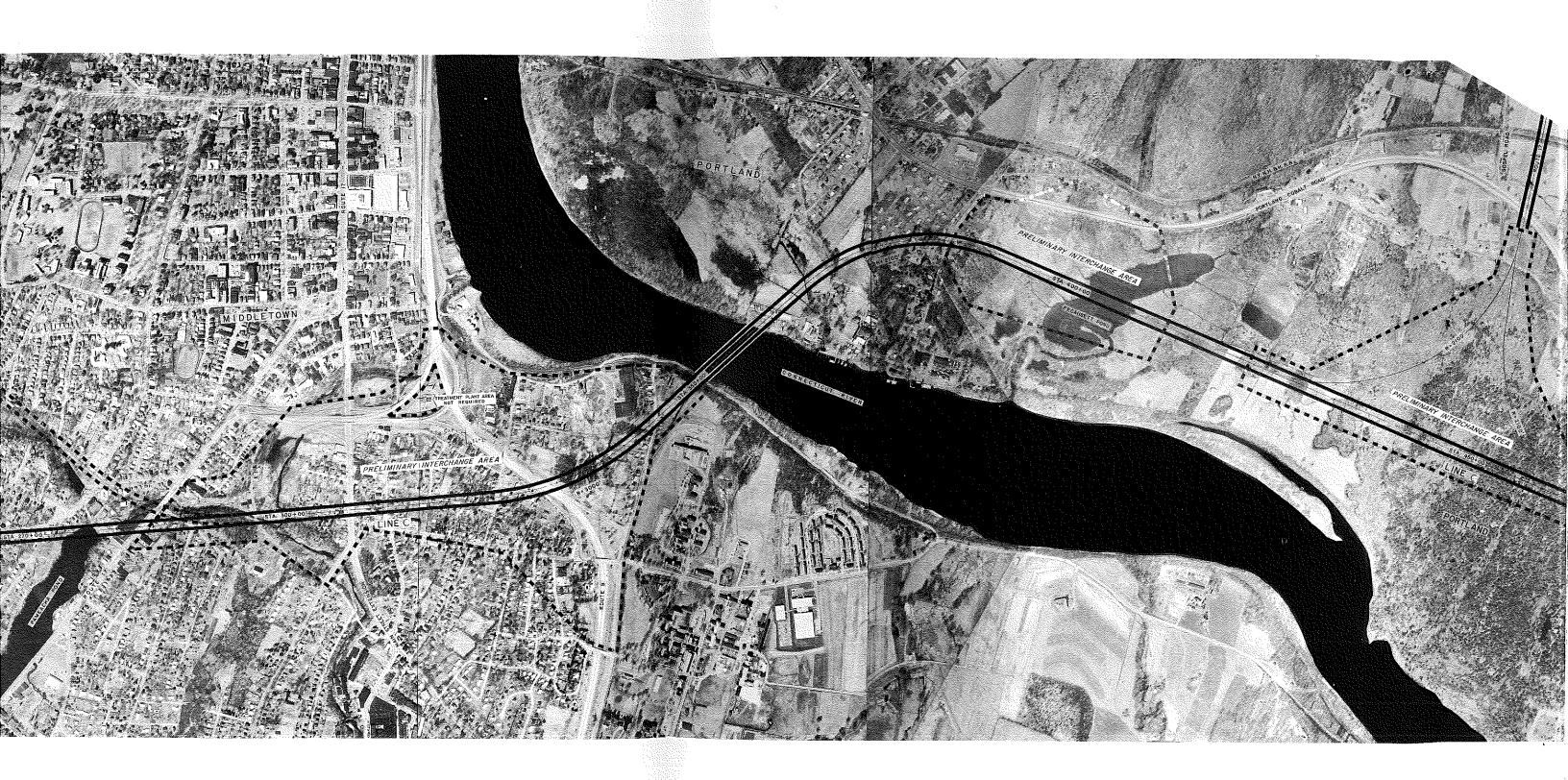


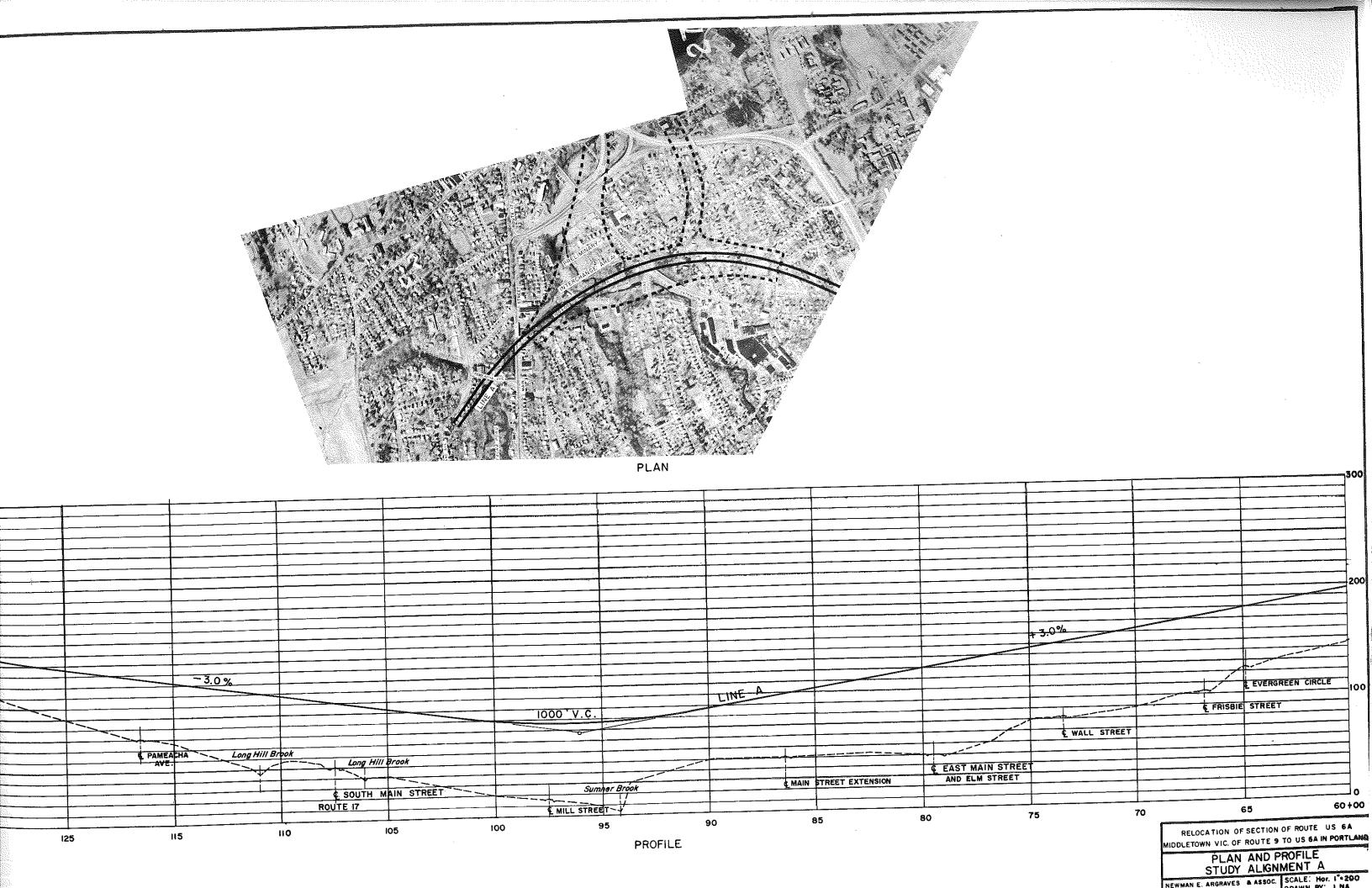


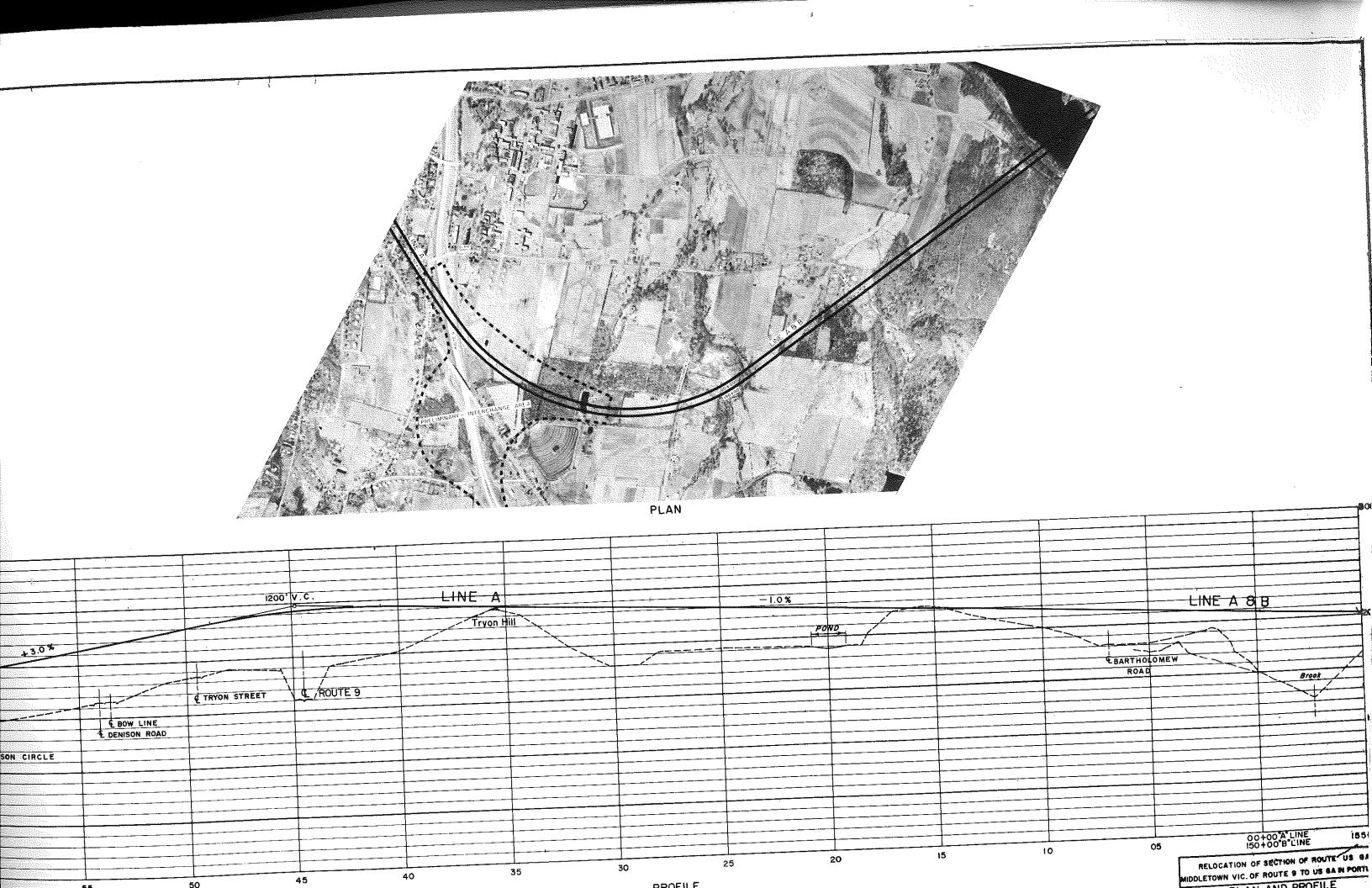


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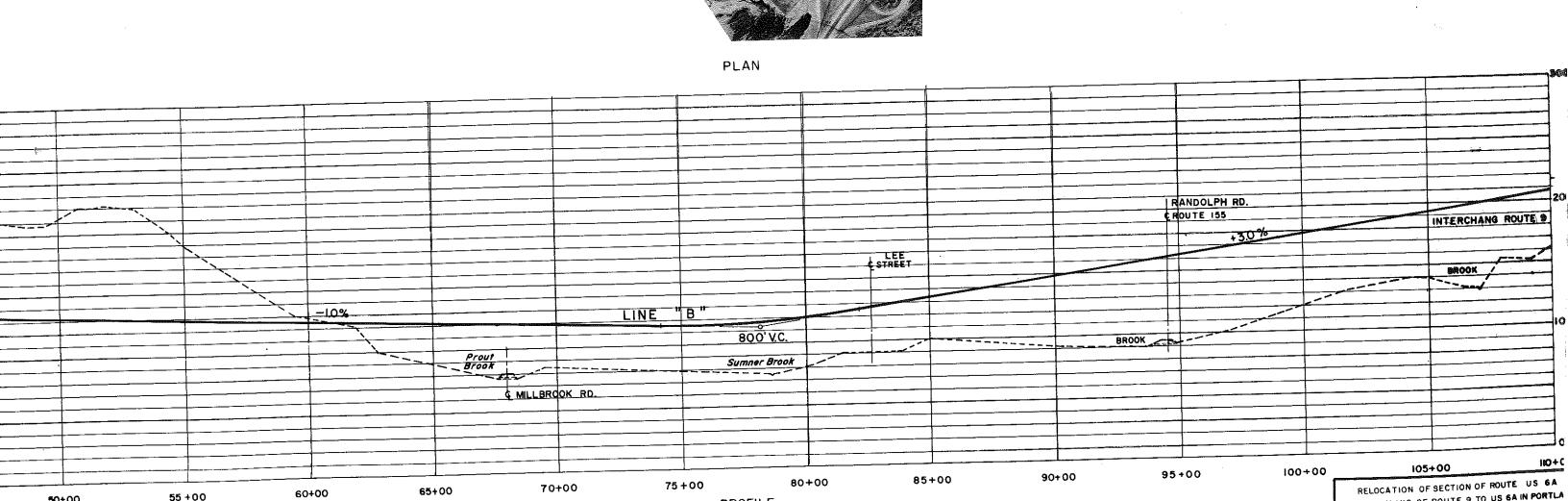


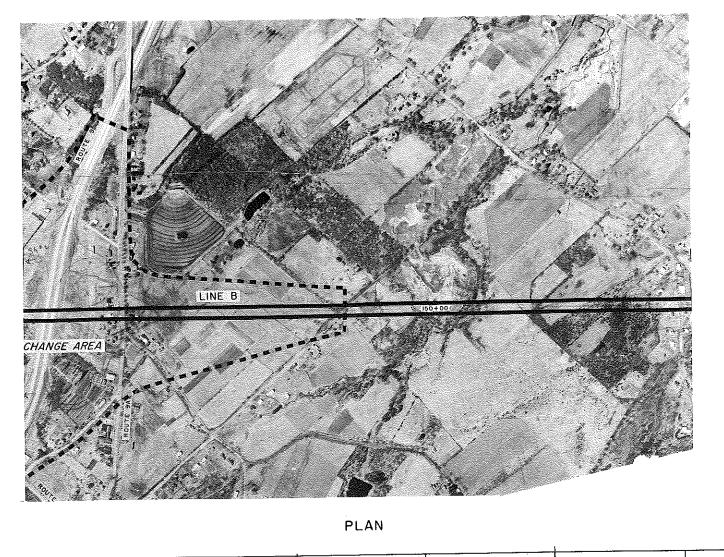


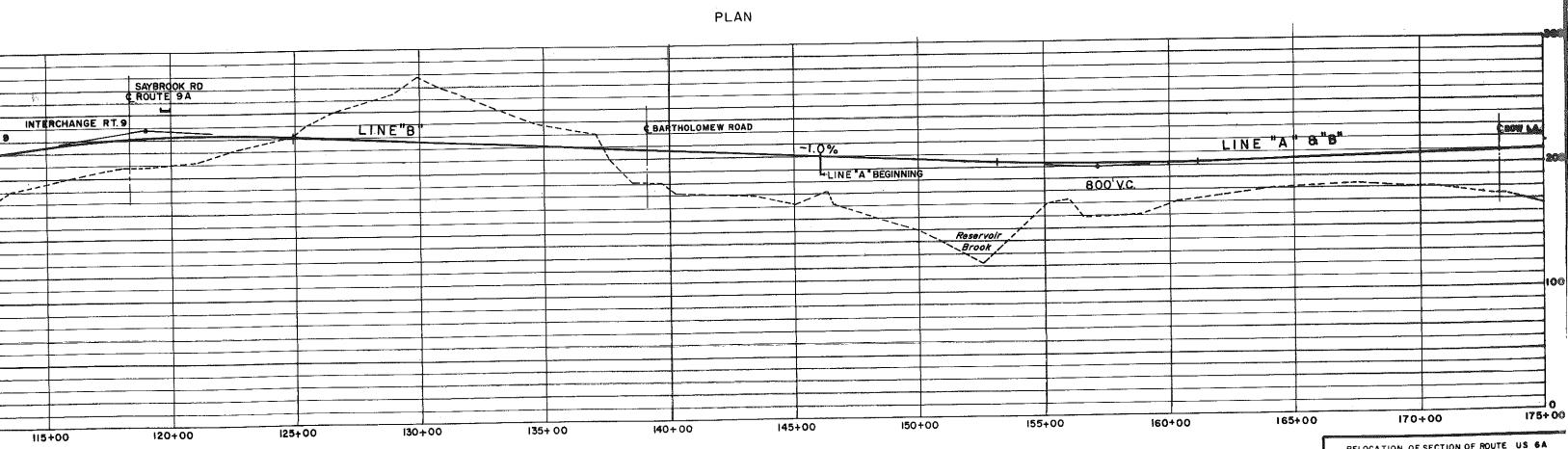


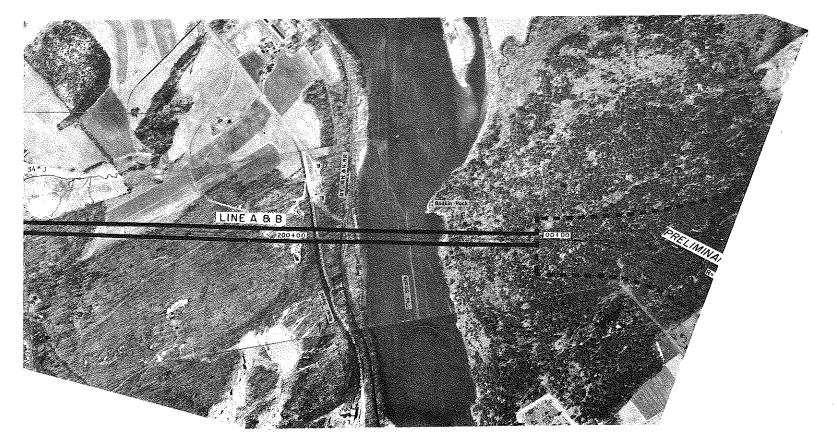


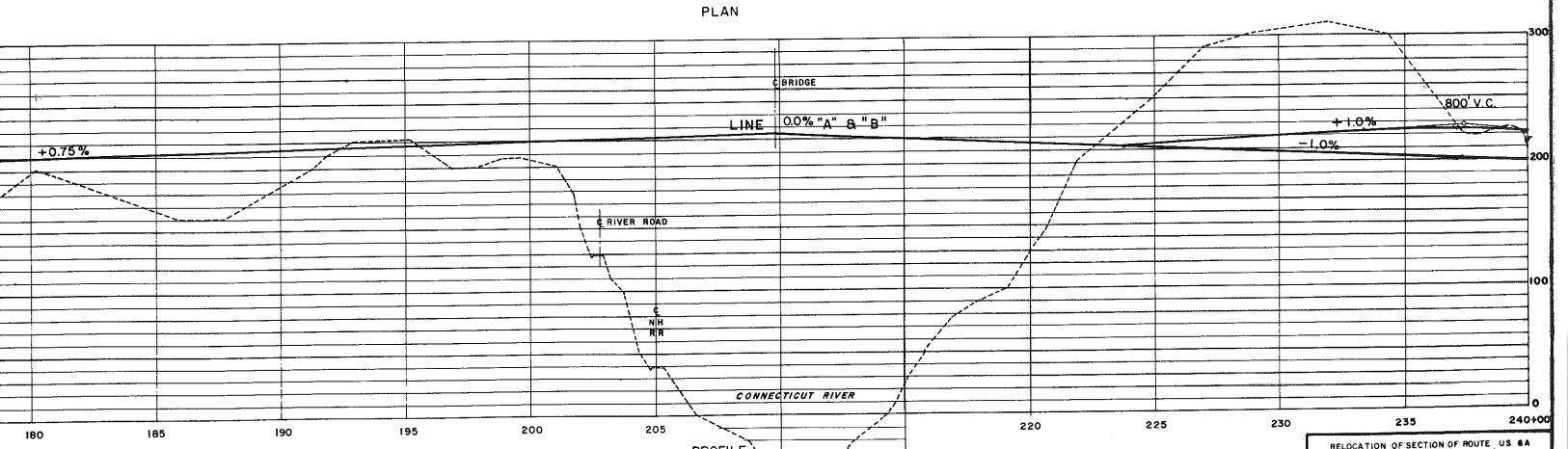




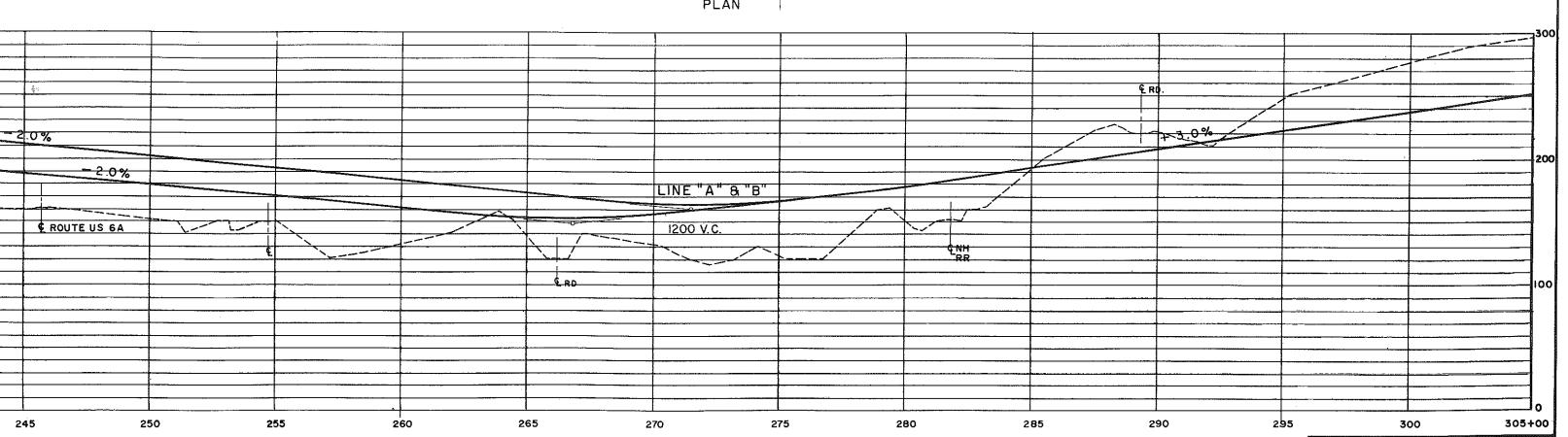


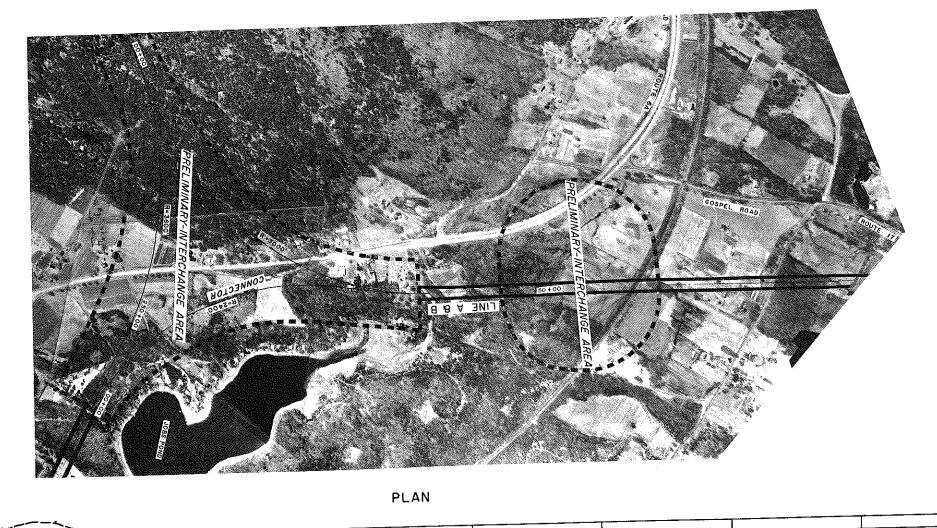


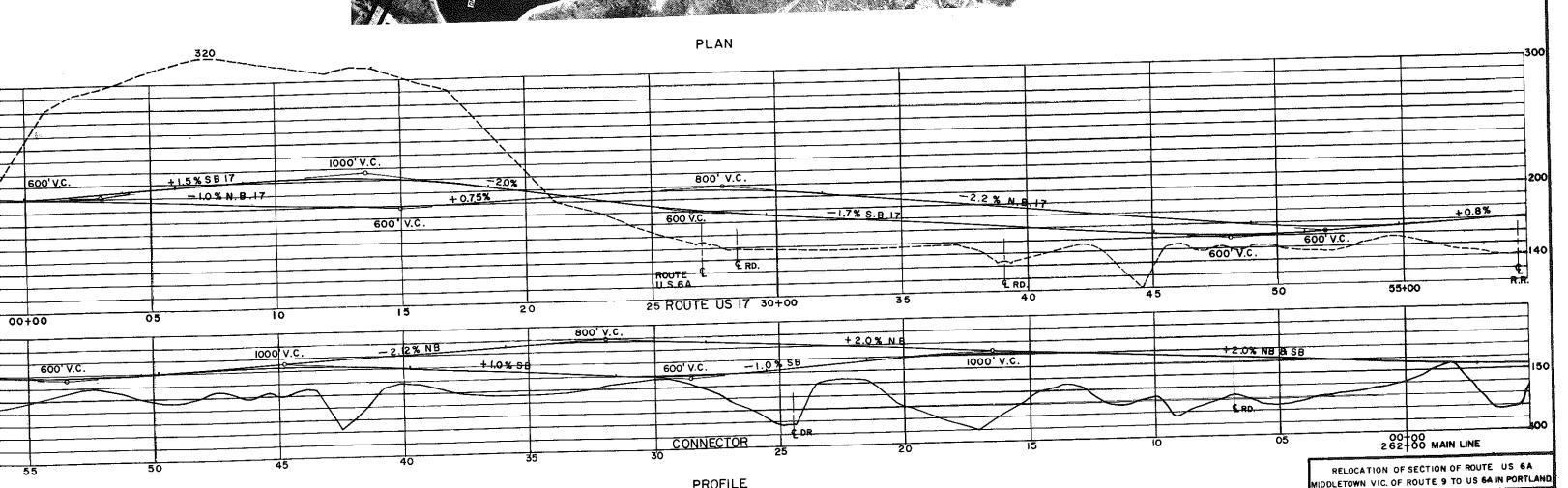


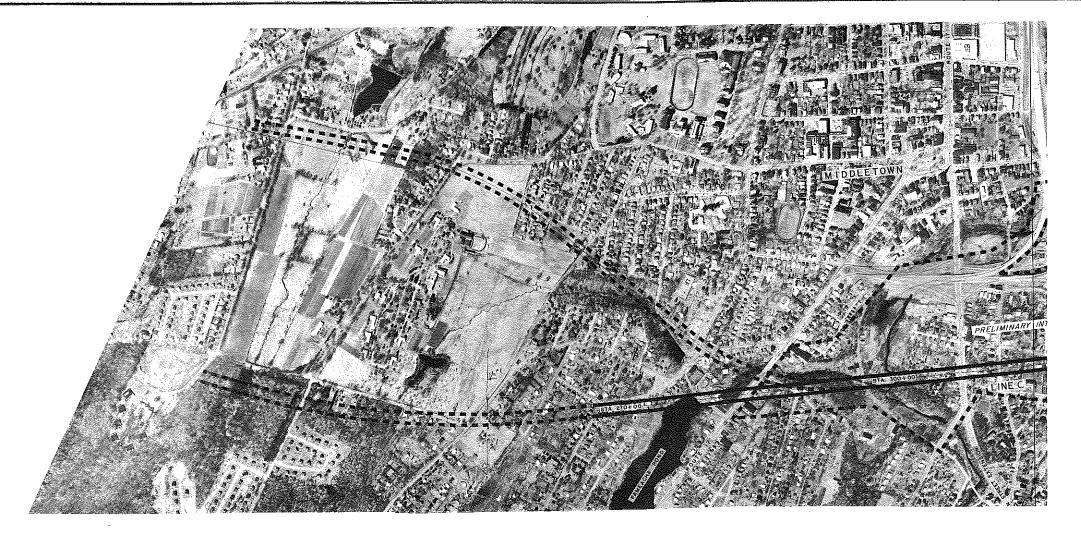


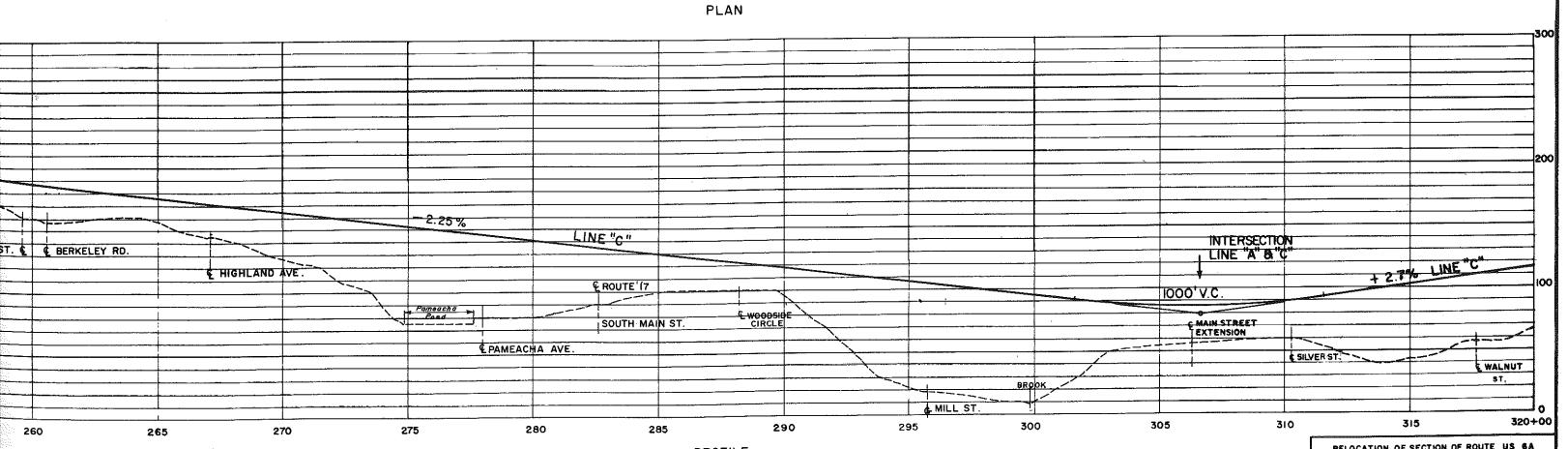




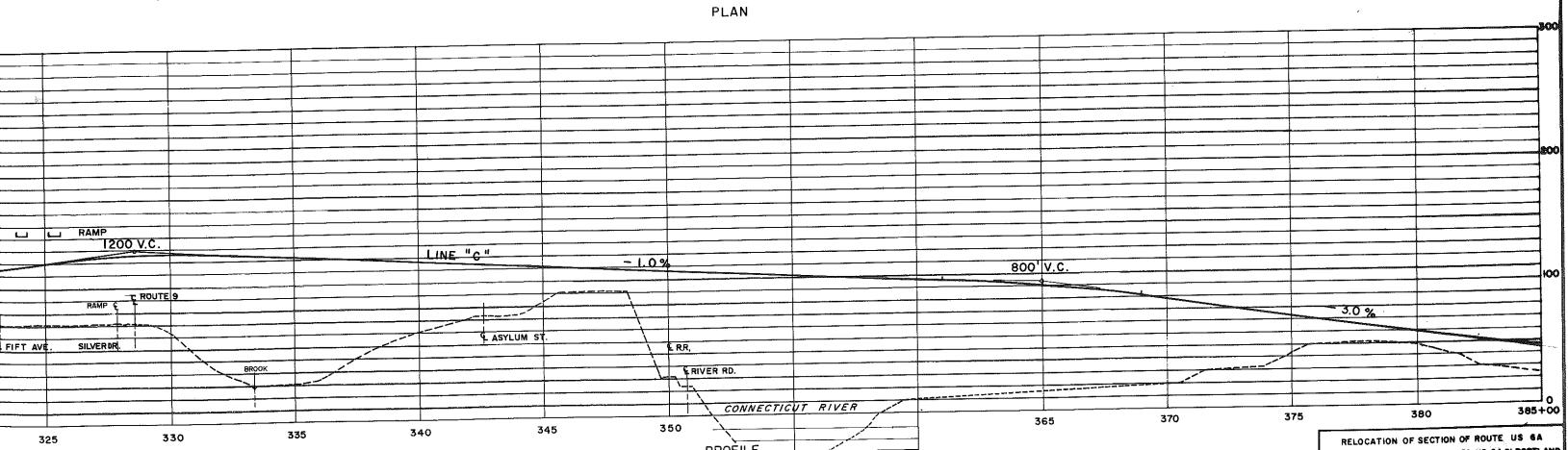


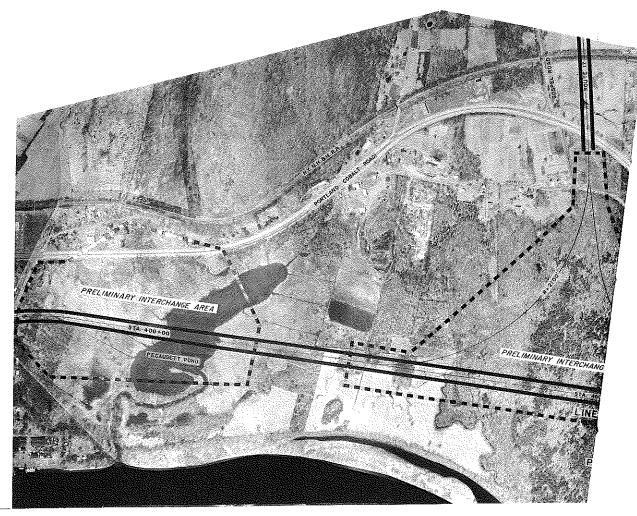


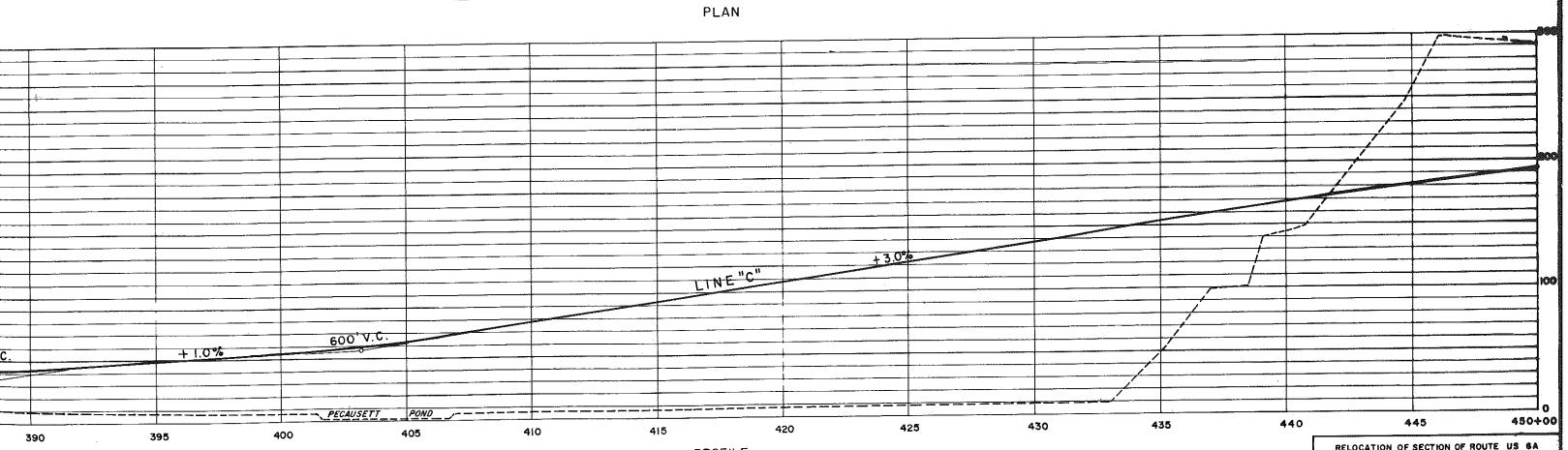




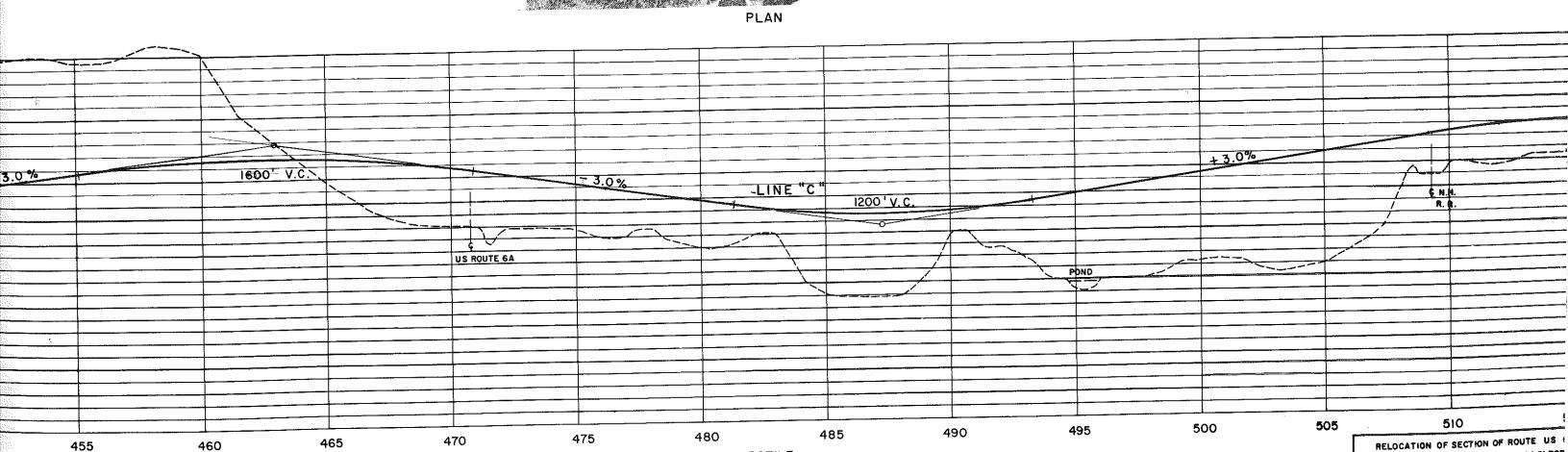


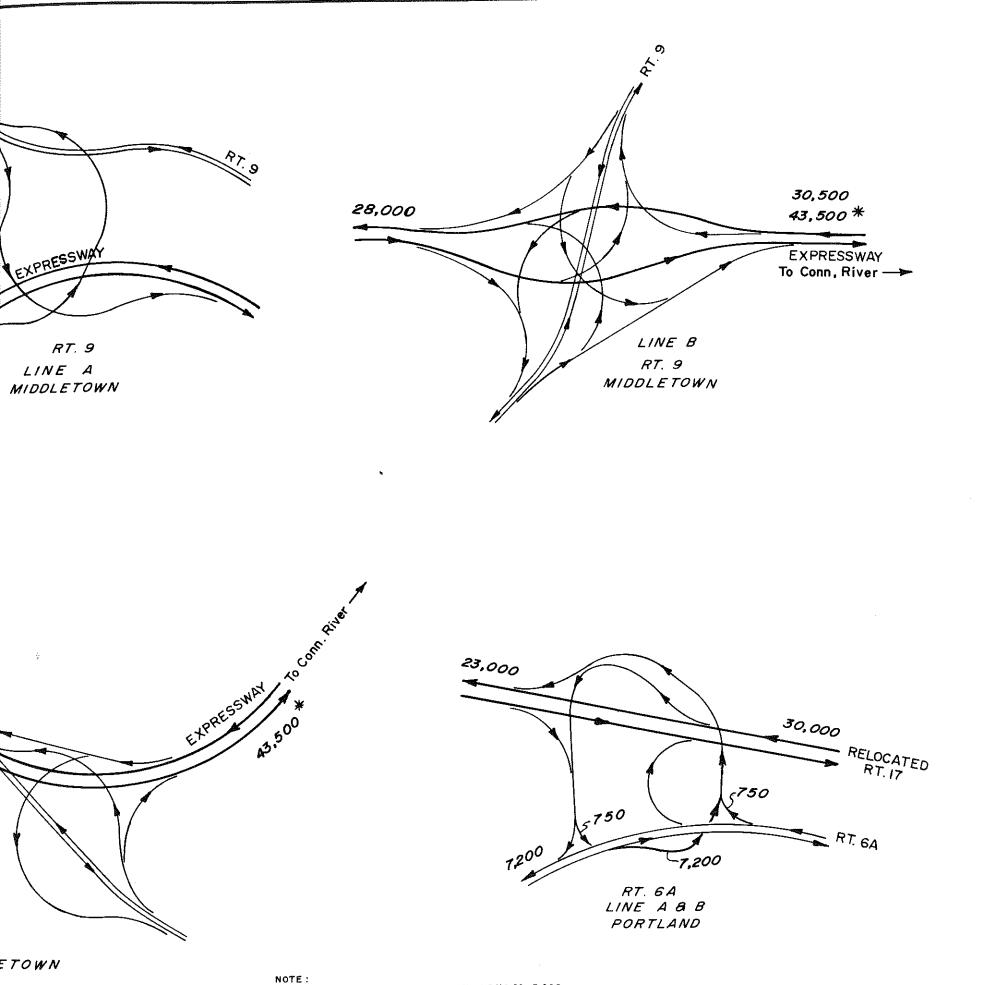


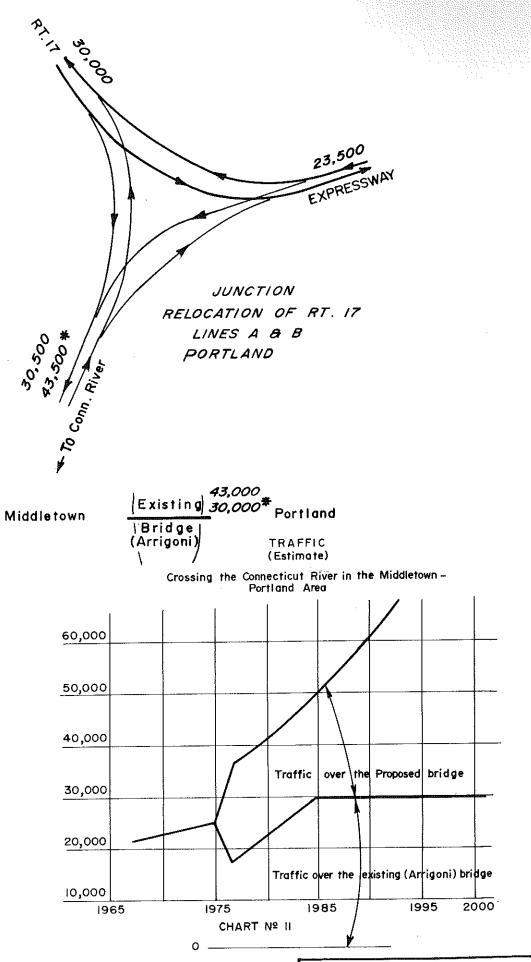






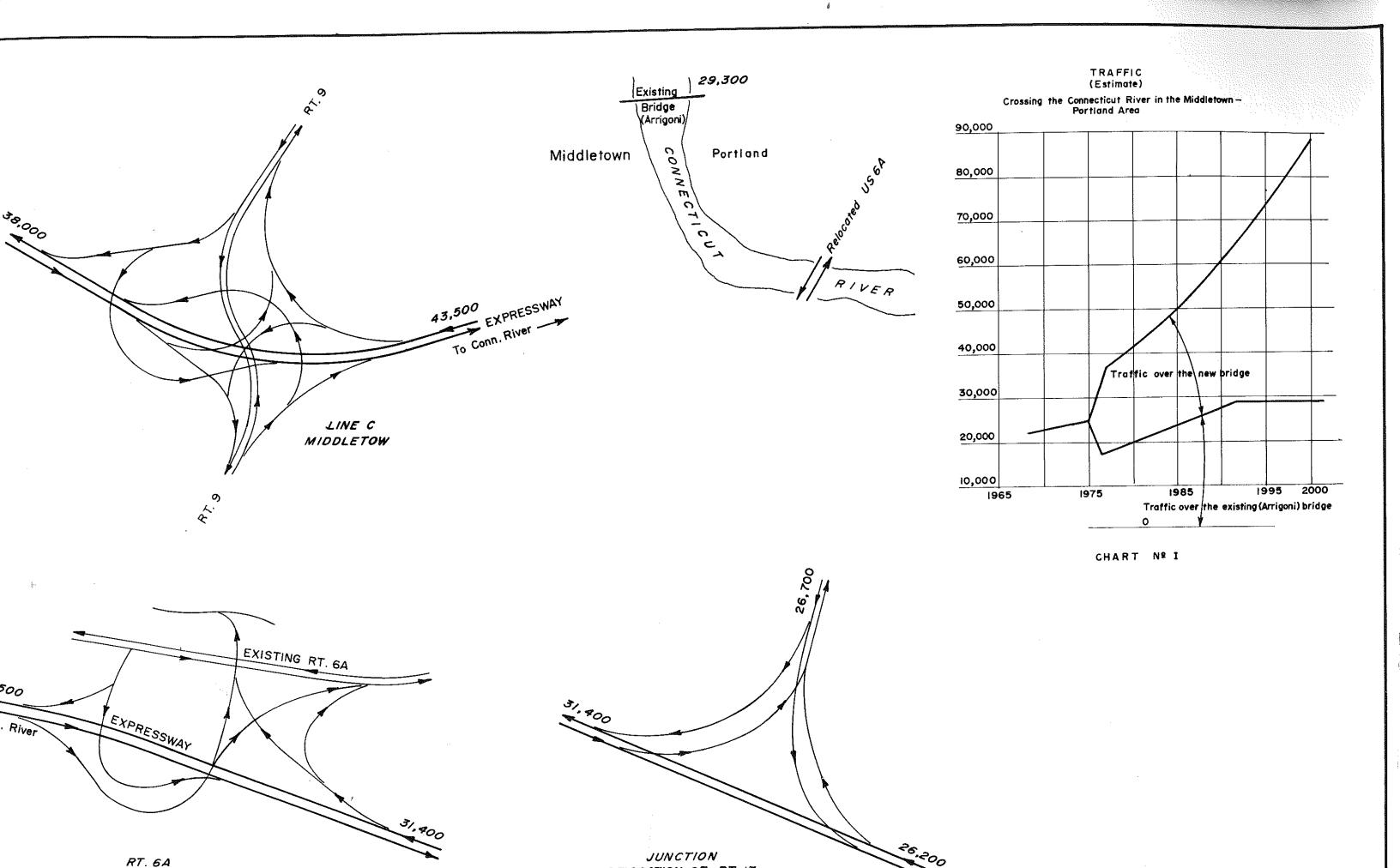






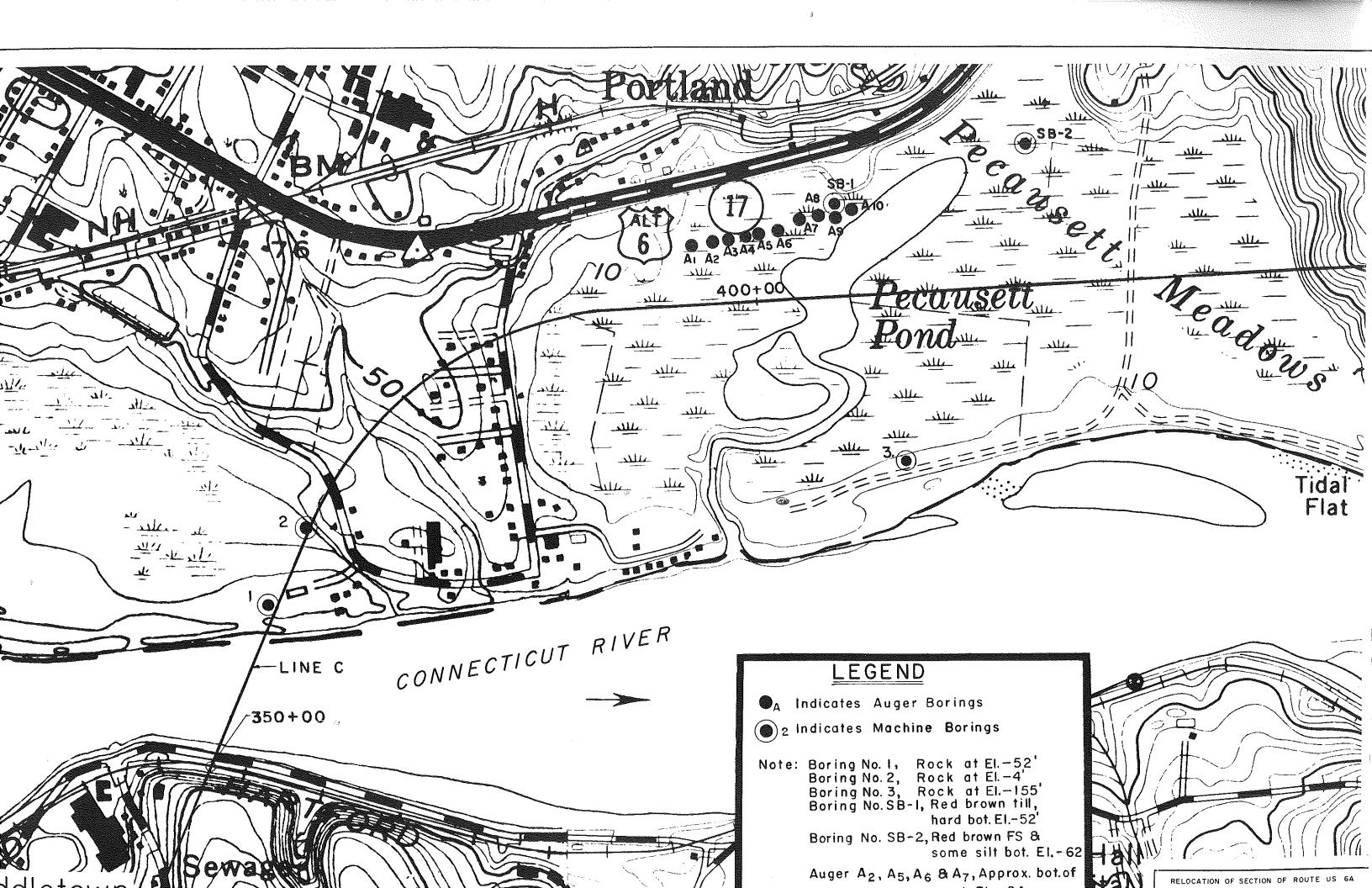
1995 DDHV (River Crossing) = 43,500 X 0.115 X 0.60 = 3,000.

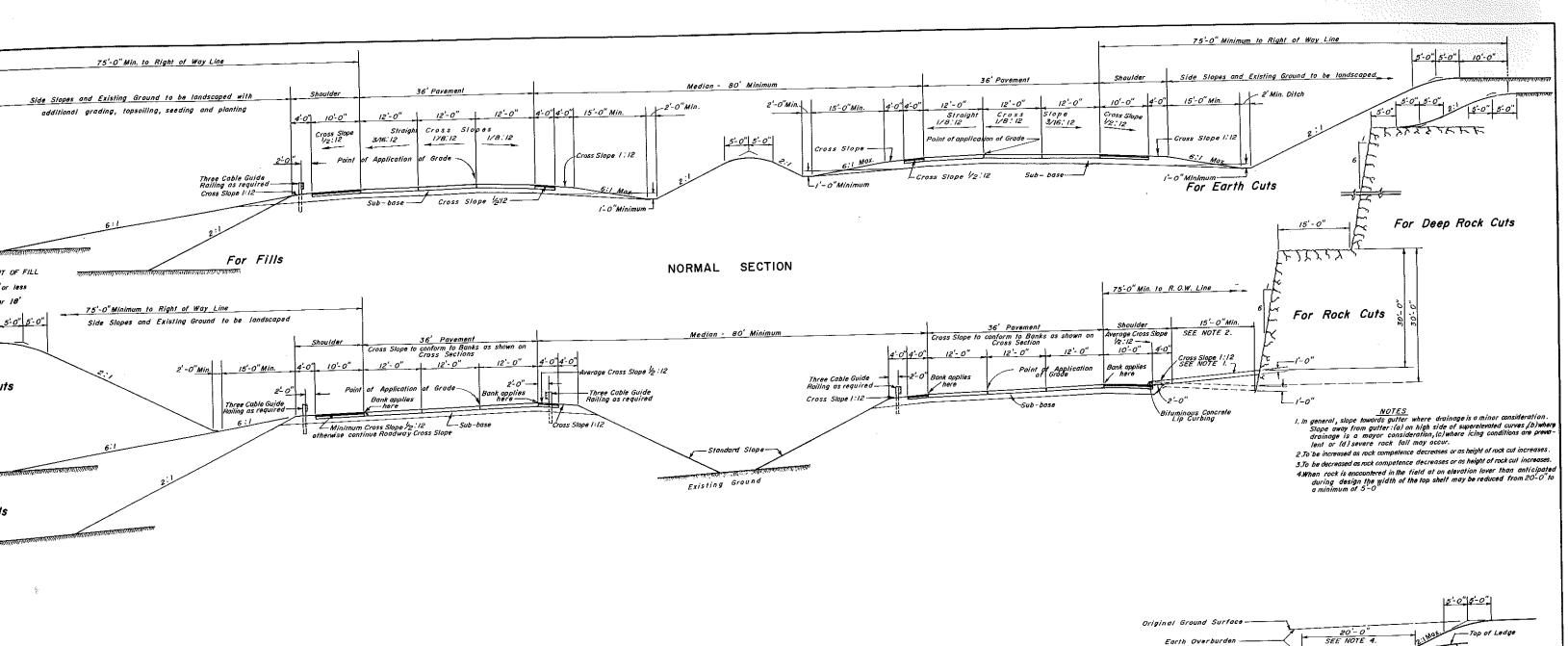
Lane Requirement = 6 Lane expandable Under Class G urban Residential.

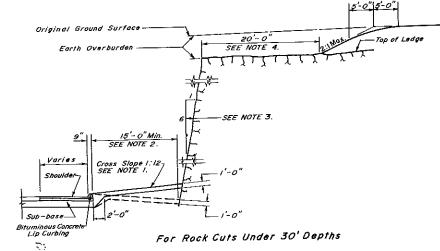


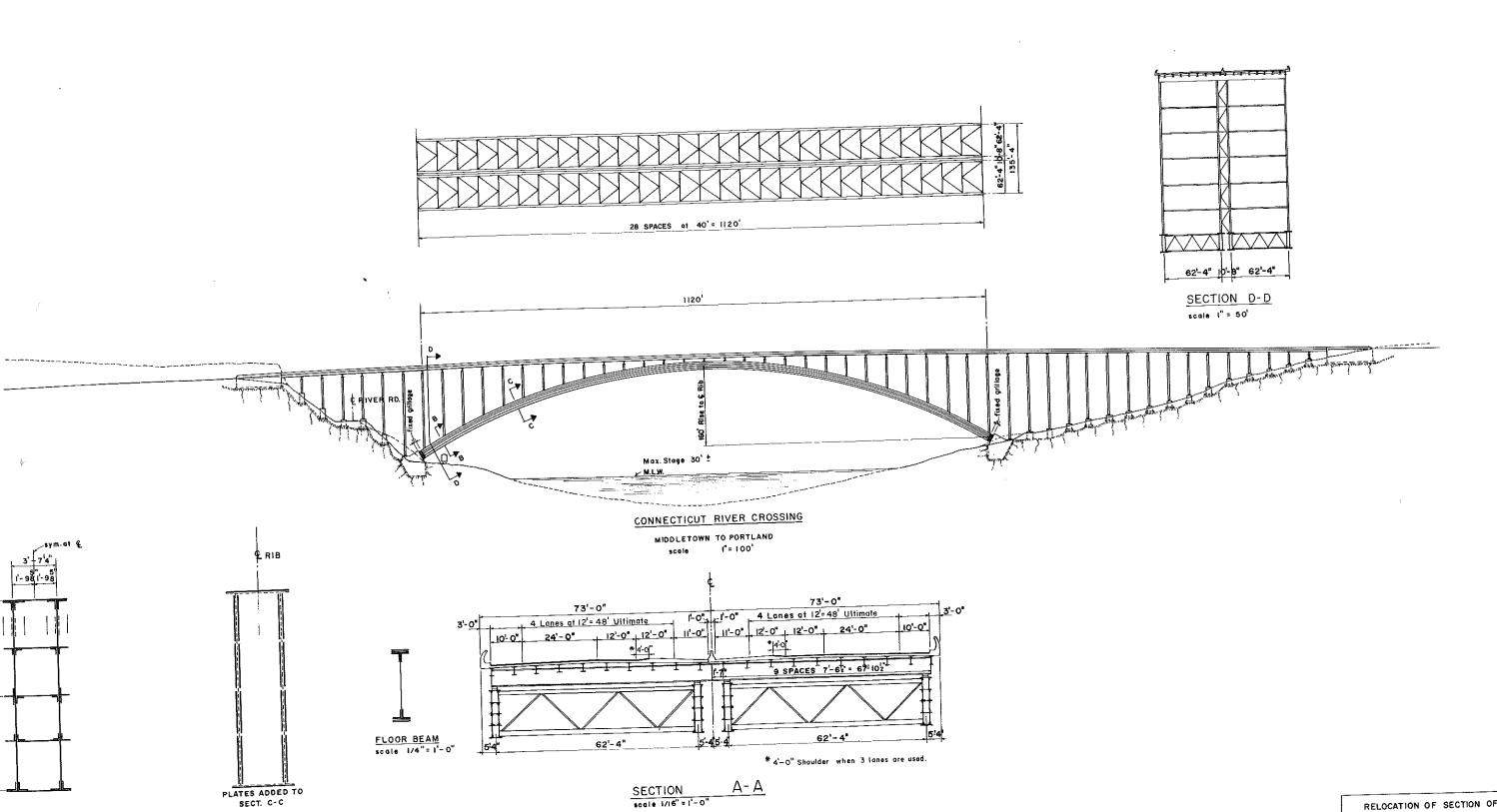
RELOCATION OF RT. 17 LINE C

LINE C



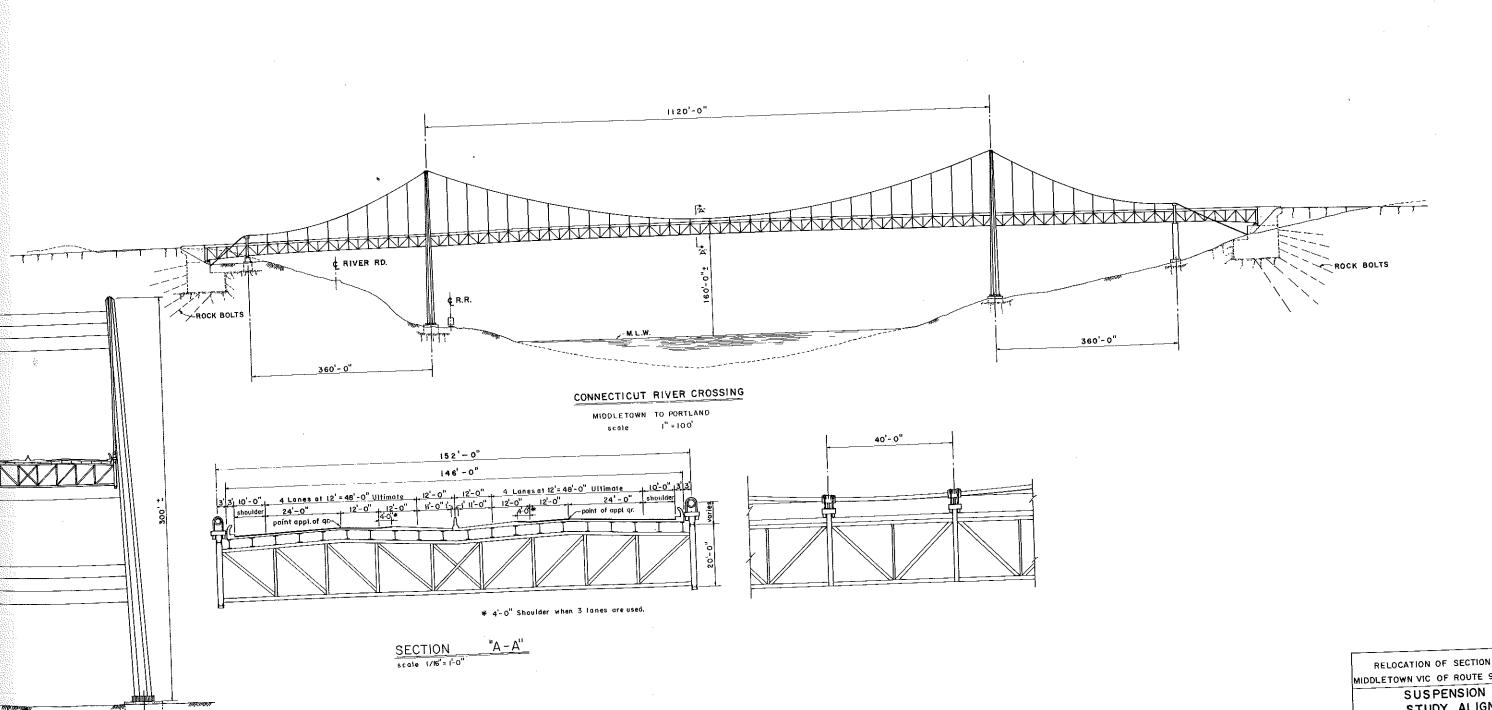






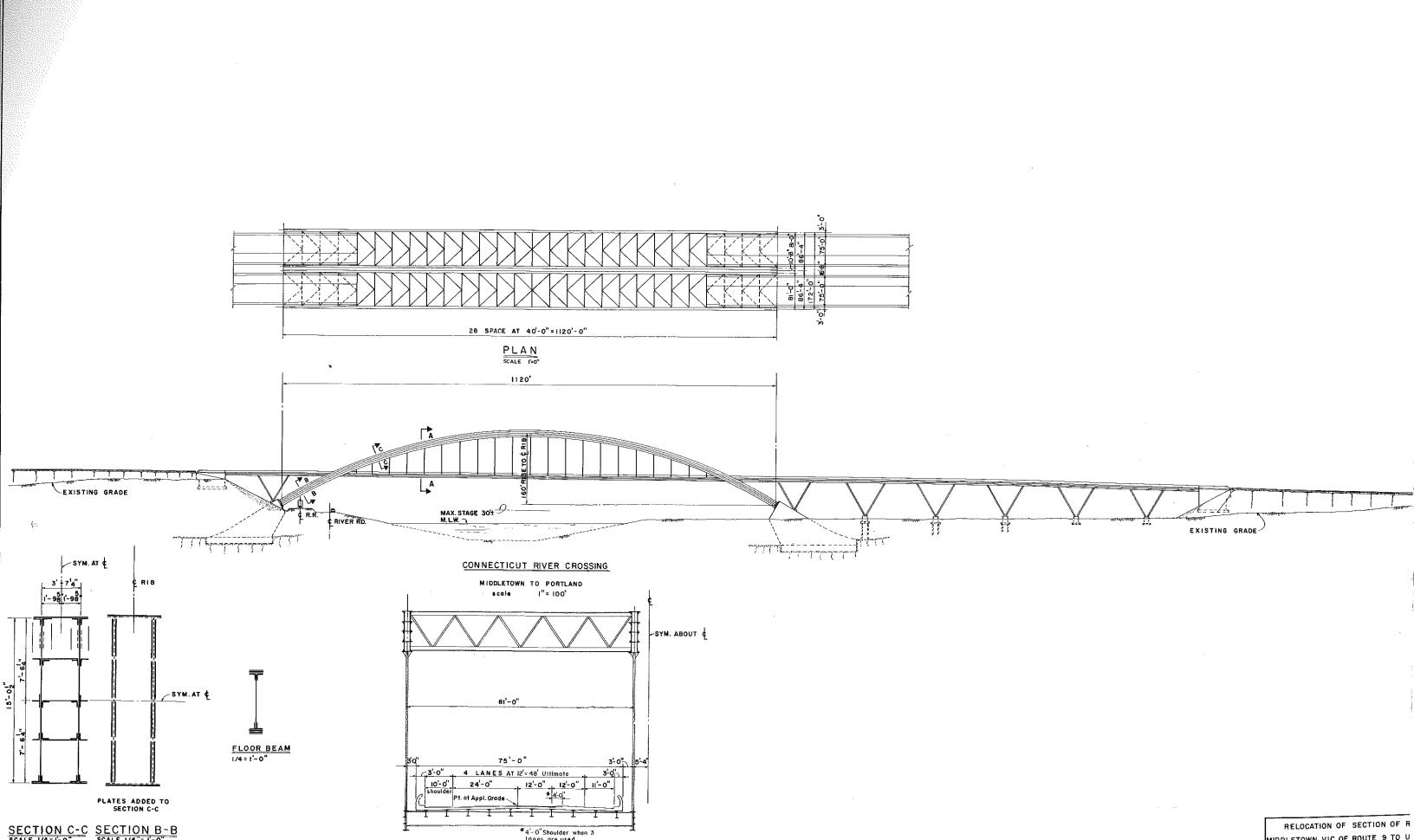
SECTION B-B

RELOCATION OF SECTION OF ROUTE US 6A
MIDDLETOWN VIC OF ROUTE 9 TO US 6A IN PORTLAND



RELOCATION OF SECTION OF ROUTE US 6A MIDDLETOWN VIC OF ROUTE 9 TO US 6A IN PORTLAND

SUSPENSION BRIDGE
STUDY ALIGNMENT A&B

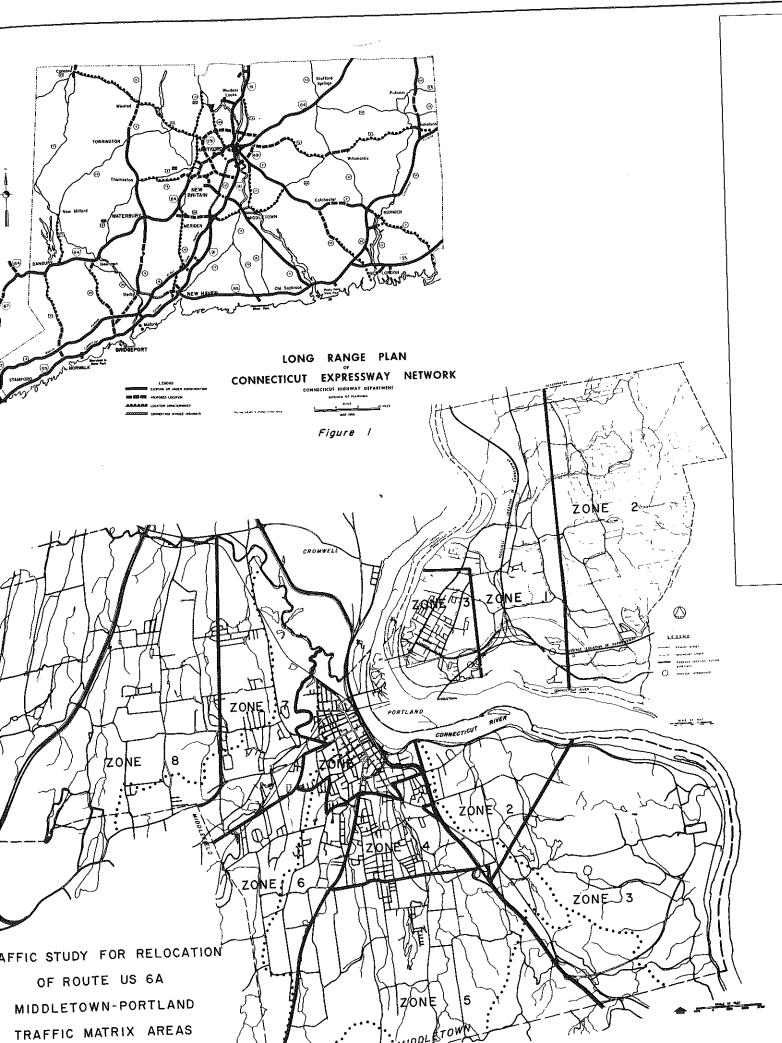


APPENDIX

Traffic Study for Relocation of Section of Route US 6A

CONNECTICUT RIVER BRIDGE

MIDDLETOWN - PORTLAND





STATE OF CONNECTICUT STATE HIGHWAY DEPARTMENT 24 WOLCOTT HILL ROAD ... P. O. DRAWER A WETHERSFIELD 9. CONNECTICUT 06109

In reply refer to Unit 402 ^

Mr. Newman E. Argraves Newman E. Argraves & Associates 95 River Street Milford, Connecticut

Dear Mr. Argraves:

Enclosed is traffic information with respect to the relocation of the U.S. 6A bridge across the Connecticut River between Middletown and Portland. It is important, before discussing the trip tables, to point out various qualifications that apply to the traffic projections.

The first condition concerns Figure 1 showing the long range plan of future Connecticut expressways. All of these have been included in our simulated networks for the year 2000. The relocation of U.S. 6A across the Connecticut River is the new bridge.

The second condition that has been applied in calculating the year 2000 traffic is the fact that the State population for the year 2000 is 5.1 million people. Many people concerned with the future population of the State feel that this projection is somewhat low. At present, further analysis is being made with respect to future population.

A third condition applied to this projection is the fact that the year 2000 population for Middletown is 92,300 and Portland is 29,100.

In our analysis of the traffic we are forwarding to you we have found that by far the greatest factor influencing the traffic on the proposed bridge is the assumption that U.S. 6A and Conn. 17, as previously discussed, are in the expressway system.

Figure 2 is a map of Connecticut which shows the areas that have been grouped for the purpose of simplifying the trip matrices. Both Middletown and Portland are divided up into zones that cannot be shown on this map but can be observed in Figure 3. The zone boundaries and numbers are delineated in red on Figure 3. Town boundary lines (shown as dashed lines) also indicate zone boundaries.

Table A is a two-way total trip matrix regardless of whether or not the trips cross the Connecticut River in the Middletown - Portland area. The top number represents 1960 trips and the bottom number represents the year 2000 trips.

Table B is a trip matrix for the year 2000 which shows the two-way trips by area as outlined in Figures 2 and 3, crossing the proposed bridge and the existing bridge.

If you feel that the explanations above are not sufficient to manipulate the traffic, a representative of your office should visit this office for further explanation. I must reiterate that the traffic volumes in Tables A and B are dependent on the three conditions previously mentioned and, therefore, are preliminary and may be subject to change. I hope you find the information helpful and, if necessary, do not hesitate to contact this office. this office.

Very truly yours,

State Highway Commissioner

Enc.

Connecticut River STAFFORD UNION CANAAN HARTLAND. MANTU EAST ELLINGTON WINDSO BARK. HAMSTED, 21 BLOOM-LITCHFIELD NEW COLCHESTER EAST HADDAM SALEM LEDYARD 23 GROTON or o MIDDLETOWN-PORTLAND TRAFFIC MATRIX AREAS

RELOCATION OF SECTION OF ROUTE (MIDDLETOWN VIC. OF ROUTE 9 TO USGA IN

TRAFFIC STUDY

NEWMAN E. ARGRAVES & ASSOC, SCALE: AS

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			, N.C	· OF	CROS	SINGS	OF CO	NNECT	ICU I	7 %		₹ /	7 %	/ 6	,		7
ERAGE	DAI	LY 11			7	1,8	- / á	<u>,</u> /	~` -`/	\ %	/ 3			4RE4		/	/
		/	/		/	HAMPTON	GLASTONBUE.	4 A B F.	7	AREA	44E4		APEA /	4	\ \ \.		
		ZONE NO	PORTLAND	v /	ZONE 3	, , ,	\ \st_0\	MAP.	/ ž	ę /	MAD \	A A D	· /	MAD /	70,74		
			7,402	`/ <i>`</i> &	2 0 / 1/2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	£457	8		<u>'</u>		252	95		797	9,541	YR. 19	60
/						496	363	536		90	412	1,34	1	558	5,709	YR. 20	000
OWN		99	<i>225</i> 681		267	748	908	1,406		66	60	2	72	169	1,564	YR 19	
!	1,(04	29		658	76	<i>59</i> 660	930	4	41	271	1,0	24 1,	103	7,971	YR. 2	
OWN	1.	<i>66</i> 401	506	1,	,110	525		101		82	120		37	<i>136</i> 486	1,254 4,244	YR. 19	
2		27	14		142	57 174	211	507		293	322	1,6			2,092	YR. I	
TOWN E 3		270	127	1-	220	96	79	139	1	93	<i>82</i> 235		50	908	6,068	1	2000
TOWN		82	35	1	940	334	429	710		326	37		206	177	753	YR.	1960
E 4		938	298	+	177	24	26	48	ĺ	<i>31</i>	330	1	4	2,089	7,523	YR.	2000
TOWN		<i>20</i> 631	25	7	668	277	387	828		49	61		194	390	1,466	. !	1960
E 5				4	493	56	<i>52</i>	1 68	- 1	337	232		645	1,929	6,330	-	. 2000
ETOWN		<i>51</i> 851	27	- 1	676	305	396 	 	9	86	46	3	124	2/3	1,44 6,174		.,1960 ., 2000
4E 6		56	3	12	662	74 241	<i>57</i> 331	0.0	- 1	333	252	-	556	1,403	5/		R, 1960
ETOWN NE 7		619	25	9	1,311	26	21	'	4	34	<i>2</i> 3 27	ι.	513	<i>75</i> 1,120	5,89		R. 2000
LETOWN	_	18		9	179 810	223	369	9 1,48	31 <u> </u> 	411	4	+-	96	543	1,05	6 YI	R. 1960
NE B		513	 	79	183	29		^	9/	45	28	- 1	670	4,311	8,47	8 Y	R.2000
		21		48	459	287	37		58	285	21	0	337	1,012	3,64	- 1	R. 1960
LEFIELD		575	╂	29	381	124	1/4			1,514	1,08	55	,746	5,210	17,76		(R. 2000
IDEN .		64 1,190	, i	526	943	709	+		14	1 18	,	92	106	/ <i>34</i> 899	1 : -		YR. 1960 YR. 2000
				15	205	28	1	<i>7</i> 5 (98	780	4:	53	670		+		YR 1960
LIN	\	45	9	226	845 	<u> </u>		001	3//	109	1 .	9/	<i>217</i> 991	/62 1,14	1 1		YR. 2000
		10		55	1,619 2,863	12	ี .	46 3,6	504	724	 	18		40,81			YR.1960
DMWELL		1,20	05	493	4//	<u> </u>	17 3		928	<i>862</i> 3,992	1	203	<i>3,187</i> 8,421	111,35			YR. 2000
	19	1	96	<i>64</i> 636	905	1	1 .		551	268	┼──	267	555	1,52		186	YR.1960
P AREA		1,12		32	17.	7 1	"		350 474	3,575	i i	240	3,028	8,50			YR. 2000
AP AREA	. 19	1	16	503	72	<u></u>		075 127		4,73		220	1,225		i	l l	YR.1960 YR. 2000
			52	167	1,31	٠,	1	851 349	605	23,81	4 7,	872	6,983	 		773	YR. 1960
AP AREA	20		347	1,943				228	959	26,01			7,527 23,197	1	1	855	YR. 2000
		-	50	4.	٠, ١			,037	7,372	80,85		-	23,131	5,3		,210	YR. 1960
AP ARE	A 23	:	343	42			271	126	451	3,4		, <i>521</i>		19,0		, 139	YR. 2000
	A 2	ا	44	<i>3</i> 56			055		2,785	 		,221	5,41	$\overline{}$	1	,748	1
MAP ARE	.д 2		694			92	57	<i>91</i> 668	<i>327</i> 2,741	1	ì	3,804	19,05	1 7	}\-	,226	
MAP ARE	EA 2	5	3/ 7/5	33	١.	310	465		7,172	+	61 13	730	21,4	- 1		<i>9,303</i> 2,920	
MAT AN			,558						02,542			5,887	73,13	5 172,	933 31] ''''
TOTAL		1	7,397	8,4	1	794 12	.,505										
11s.																	

TABLE B

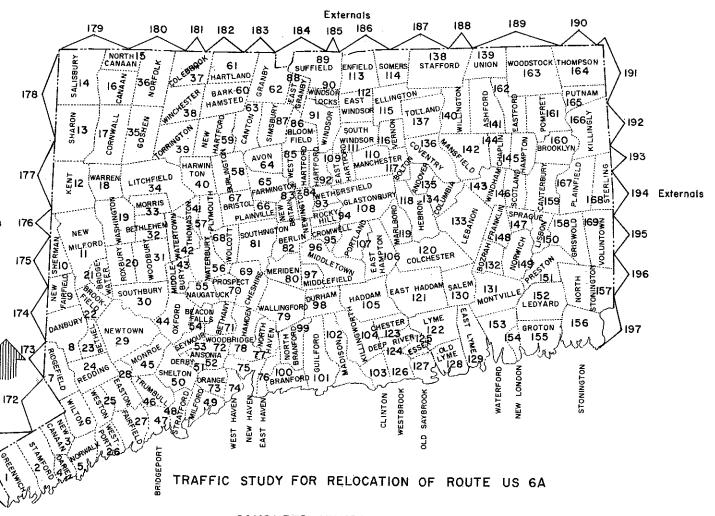
TRAFFIC STUDY FOR RELOCATION OF ROUTE US 6A PROJECTED TWO WAY AVERAGE DAILY TRAFFIC FOR YEAR 2000

PROJECTED TWO WAY AVERAGE DAILY TRAFFIC TON TENT											Route US 6A(Present)		
	PORTLAN		Sed Reloc	/	à/	~ /	MAD ARE.	MA ₁₀ 24	Sugr ₀₇ , Sugr ₀	7	PORTLAW		
			3,489	4,643	3,008	927	441	0	25,407		11,440	36,847	
MIDDLETOWN	10,072	2,827	373	444	363	207	45	0	2,542		943	5,976	
MIDDLEFIELD	823	287	587	0	1,102	788	131	0	5,033		 	2;490	
MERIDEN	1,716	709		-	304	324	50	0	1,419		1,071	6,094	
BERLIN	459	282	0		419	286	75	0	2,738		3,356		
CROMWELL	1,205	474	.279	0	2,225	716	234	0	6,703		905	7,608	
MAP AREA 18	1,762	1,063	703	0		1,056	369	. 0	5,965		737	6,702	
MAP AREA 19	1,302	831	495	0	1,912	 	409	0	5,340		4,181	9,521	
MAP AREA 20	1,164	1,241	0	0	0	2,526		0		1	49	49	
	0	0	0	0	0	0	0	0	729	1	30	759	
MAP AREA 21	31	0	135	563	0	0	0			 	538	4,347	
MAP AREA 23		158	555	2,129	86	0	0	95	1	+	610	5,269	
MAP AREA 24	_			1,640	754	129	0		4,659	 			
MAP AREA 25	20,369			-	10,173	6,959	1,754	9	5 64,344		24,319	88,663	

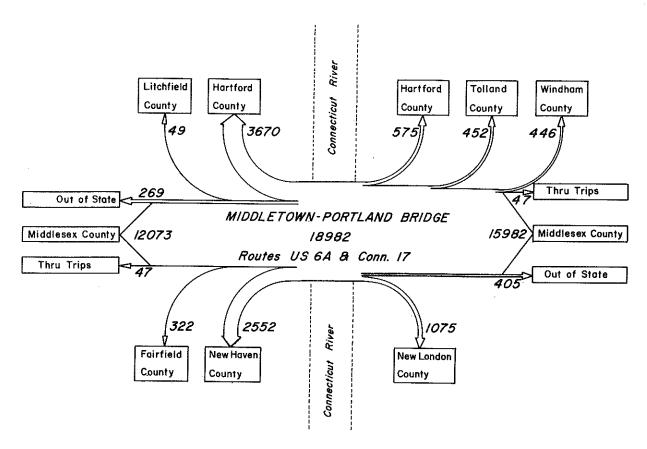
RELOCATION OF SECTION OF ROUTE US 6A MIDDLETOWN VIC. OF ROUTE 9 TO USGA IN PORTLAND

TRAFFIC STUDY

NEWMAN E. ARGRAVES & ASSOC. SCALE: None



COMPUTER NUMBERS FOR ZONES



TRAFFIC STUDY FOR RELOCATION OF ROUTE US 6A
1960 AVERAGE DAILY TRAFFIC
FROM ROADSIDE ORIGIN & DESTINATION COUNT (1963)

TRAFFIC STUDY FOR RELOCATION OF ROUTE US 6A
GROWTH RATE STATISTICS

		- I	TE STATIST				
YEAR	AVERAGE DAILY TRAFFIC	POP	ULATION PORTLAND	TAXABLE MO	FOR VEHÍCLES		
1947	8,300						
1949	10,400						
1950	11,300	20,711	5,186	8,512	2,076		
1951	12,300						
1953	16,000	6% Year	5%Year	4.5%Year	7.9% Year		
1955	20,800						
1960	19,000	33,250	7,800	12,337	3,718		
1962	19,200						
1964	20,000						